

Exhibit 8

Harvard Medical School

Harvard TH Chan School of Public Health

John J. Godleski, M.D.
Professor of Pathology
Emeritus



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(MIPS Program)

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June 21, 2021

David Dearing, ESQ

Beasley Allen Law Firm
218 Commerce Street
Montgomery, AL 36104

Re: Pasqualina Rausa

Dear Mr. Dearing:

I was on the faculty of Harvard Medical School (HMS), Brigham and Women's Hospital (BWH), and Harvard School of Public Health (HSPH) from 1978-2017, retiring as Professor of Pathology in 2017. I graduated from the University of Pittsburgh School of Medicine. As a student, I did research in the Pathology Department learning electron microscopy. In my senior year, I received the top award for research done by a medical student in the United States given by the Student American Medical Association, and published several papers describing that research. I then did an internship and residency in Pathology at the Massachusetts General Hospital, a major teaching hospital of Harvard Medical School. I received further training at HSPH and the University of North Carolina. I was board certified in Anatomic Pathology in 1975. I spent 5 years on the faculty of Medical College of Pennsylvania in Philadelphia in the Department of Pathology where I was in charge of the electron microscopy facility and the autopsy service, and then was recruited to head Pulmonary Pathology at BWH in Boston, a position I held for 37 years. I published more than one hundred and seventy peer-reviewed papers related to pulmonary/environmental pathology including a number using analytical electron microscopy. Notably, I have been senior author on a number of papers using analytical electron microscopy with both X-ray analysis and electron energy loss spectroscopy. In my career, I received more than \$30 million in research grants from NIH, EPA, and other funding agencies as Principal Investigator; I led the Particles Research Core in the Harvard-NIEHS Environmental Research Center and I was Associate Director of the Harvard Clean Air Research Center supported by the US EPA. In my daily activities, I was a member of the Pulmonary Pathology and Autopsy Services at Brigham and Women's Hospital. I taught Pathology residents and fellows, medical students, graduate students, and postdoctoral fellows, and I carried out research in my laboratory at HSPH. I was responsible for accurate pathological diagnoses at BWH and I oversaw a research group of as many as 15 people at HSPH. I was the pathologist providing the final opinion on difficult diagnostic cases of lung disease within our department, and I was a recognized expert whose opinion was sought by pathologists from other hospitals in the diagnosis of foreign material in tissues throughout the body using scanning electron microscopy (SEM) and energy dispersive X-ray analyses (EDS). Although now retired, I have full access to laboratory and electron microscopy facilities.

I have recently published six papers regarding talc and tissue pathology (references 1-6). The first paper used tissue digestive procedures and SEM/EDS to quantify talc in lymph nodes in comparison to the use of *in situ* SEM/EDS; the second described the migration and detection of talc in pelvic tissues from the perineum in a series of exposed patients who also had ovarian malignancy. The third concerned the use of spectroscopic magnesium and silicon weight % ratio standards to diagnose talc in human tissues, and

the expected mathematical distribution for such measurements. Three other publications also pertain to talc identification in tissue and resultant pathology (references 4-6).

I have received 47 slides on Pasqualina Rausa, 46 on case L18-2837 (the main surgical case) and 1 on case LN18-285 (a cytology slide from ascitic fluid). According to the hospital pathology report, 48 blocks were made on case L18-2837. However, we did not receive slides from blocks 7C and 12C from L18-2837. Slides labeled L18-2837 represent the tissues from the patient's surgical procedure on 6/13/2018 which included hysterectomy, bilateral salpingo-oophorectomy, left and right external iliac lymph node excision, right and left common iliac lymph node excision, right and left para-aortic lymph nodes excision, right and left pelvic sigmoid peritoneum biopsies, bladder peritoneum biopsy, omentum biopsy, right and left diaphragm peritoneum biopsies, small bowel mesentery and serosa nodules biopsies, right and left paracolic gutter peritoneum biopsies, and right peritoneum paericolic plaque excision. Slides on this case were received with the following sublabels: 1 A-F; 2; 3 A-B; 4-6; 7 A-B, D-G (representing the left tube and ovary); 8 A-H (representing the right tube and ovary); 9; 10 A-B; 11 A-D (representing the cervix and uterus); 12 A-B; 13-15; 16 A-C; 17 A-B; and 18-20. All slides were prepared by the Department of Pathology, Ascension St. Vincent's Southside Hospital, 4201 Belfort Road, Jacksonville, FL 32216. The histologic slides listed above were reviewed with light microscopy, and the diagnosis of high grade serous carcinoma of the left and right ovaries was confirmed. In the surgical pathology report, the tumor was described as being within the left ovary and being within and on the surface of the right ovary and having maximum dimensions of 10.0 cm and 10.7 cm respectively. with metastasis to the omentum and the serosa of the uterus. Furthermore, according to the surgical pathology report and confirmed here, the various lymph nodes and other biopsies taken were all free of tumor. **Figure 1** illustrates key microscopic findings of the high grade serous carcinoma.

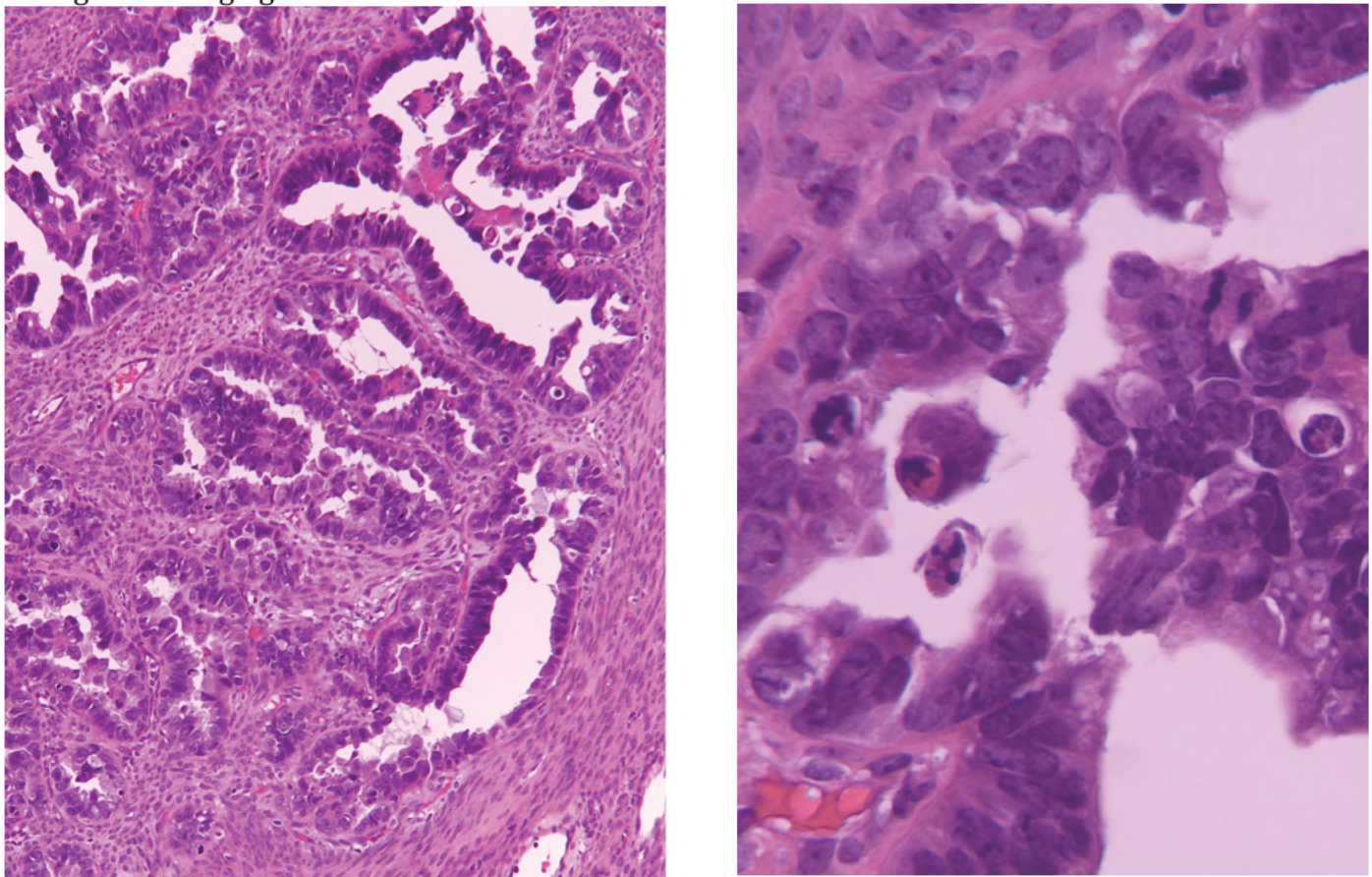


Figure 1. Left. High-grade serous carcinoma of the left ovary (slide 7D), with associated fibrous stromal reaction. Original magnification 60x. **Right.** High-power view of this serous carcinoma, showing marked nuclear pleomorphism and bizarre mitotic figures. These features are characteristic of a high-grade tumor. Original magnification 400x. Hematoxylin-eosin stain.

The 46 histologic slides on case L18-2837 were also reviewed using polarized light microscopy, as a means to highlight and detect birefringent foreign material in the same plane of focus with the tissues. Birefringent particle(s) were observed in 25 of the 46 slides reviewed. Figure 2 illustrates these findings.

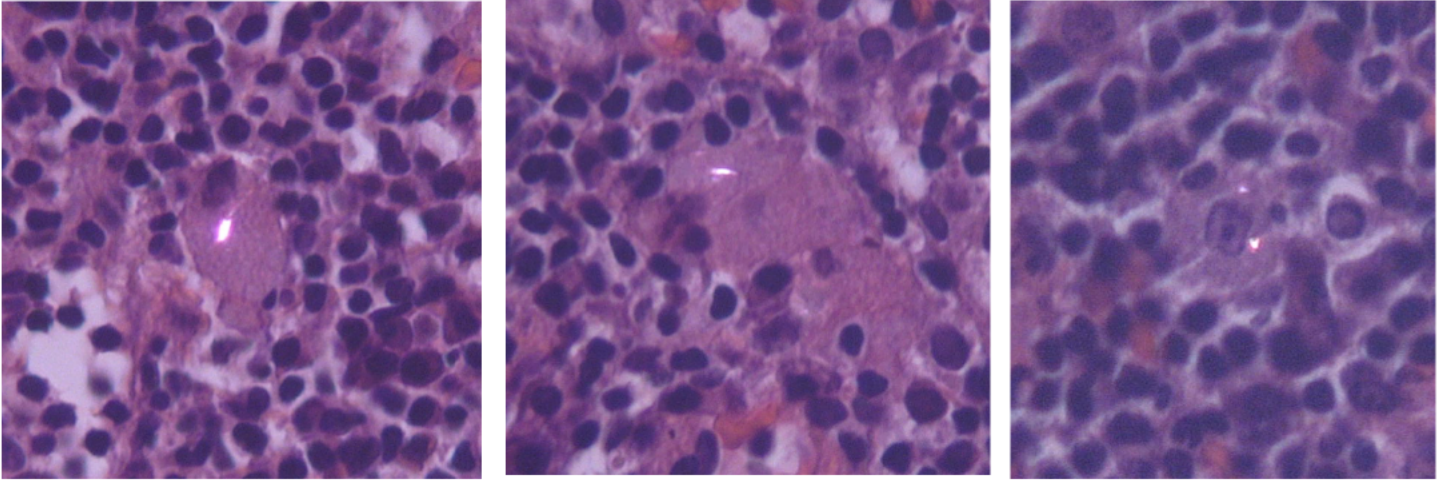


Figure 2. Left. Left external iliac lymph node with a birefringent particle in the plane of focus with the tissues. Original magnification 400x. **Center.** Another area in the Left external iliac lymph node with a birefringent fiber in the plane of focus with the tissues. Original magnification 400x **Right.** Left peri-aortic lymph node with two birefringent particles in a macrophage in the plane of focus with the tissues. Original magnification 400x. All sections stained with hematoxylin-eosin and viewed with polarized light microscopy.

Our past experience and the medical literature on the diagnosis of talc in tissues (see references) indicate that the number of birefringent particles in histological sections is robustly correlated with the number of talc particles found by SEM/EDS, since talc is a strongly birefringent material. Also, talc is more likely to be subsequently found by SEM/EDS in tissue sections where 1) the number of birefringent particles by polarized light microscopy is greatest, and 2) the anatomic location of the tissues is most consistent with the expected migration or dissemination patterns for the talc, given its initial application/exposure site (references 1-2).

Taking these factors into consideration, we recommended that eight paraffin tissue blocks from Ms. Rausa's 6/13/2018 surgery (L18-2837 7B, 8B, 8F, 11A, 12B, 12C, 13, 17B, respectively representing left fallopian tube and ovary, right fallopian tube, right ovary, cervix, left external iliac lymph nodes, right external iliac lymph node, and left para-aortic lymph node) be obtained for further studies. All eight of these paraffin tissue blocks were received and studied as per the *in situ* scanning electron microscopy technique using variable pressure as described by Abraham and Thakral (2007, reference 7), in which the paraffin block may be studied directly in the scanning microscope chamber. The blocks were handled with our standard protocol to prevent contamination of the blocks in our laboratory. This protocol begins with the handling of the blocks using powder-free gloves on pre-cleaned surfaces. The blocks were then sectioned, removing ~50 micrometers of tissue and paraffin using a rotary microtome with a new, stainless steel blade. This sectioning was done to remove any surface contamination from previous storage and handling. After the fresh surface is exposed, the blocks were placed in a pre-cleaned covered container to prevent air particulate contamination, and then transferred to the Electron Microscopy Laboratory. There, blocks were again handled with particle-free gloves on pre-cleaned surfaces, and the blocks were washed in distilled deionized water for ≥ 2 minutes to remove soluble surface materials such as sodium chloride and sodium phosphate used in processing for histology. When not being examined in the SEM chamber, the blocks were always maintained in closed plastic stub container boxes to provide secure storage and to obviate lab contamination. An example of a paraffin block studied in this case is shown in Figure 3.

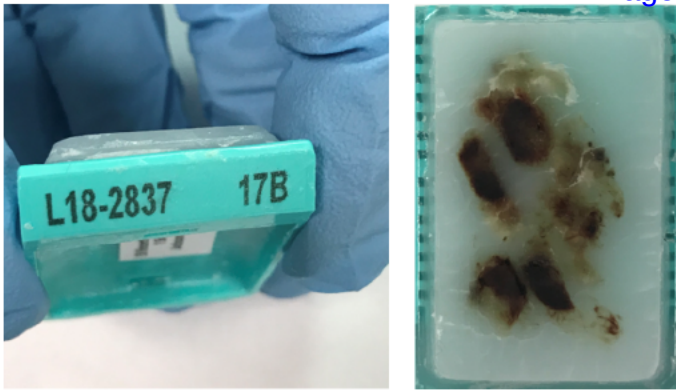


Figure 3. One of the blocks (17B, left para-aortic nodes,) examined by SEM/EDS in this case. *Left:* The labeling (identification) for the block, which is on the side of the cassette. *Right:* Picture of the cut tissue surface of the block (examined by SEM/EDS).

Tissue surfaces were studied with a Hitachi SU6600 field emission SEM with an Oxford EDS, with Oxford instrument software being Aztec 4.1 SP1. EDS detector model was X-Max 50 SDD. The backscatter mode of the microscope was used to highlight mineral particles within the tissue resulting from atomic number contrast. Areas of tissue in the sectioned block surfaces were examined with a systematic rastering technique involving sequential fields at relatively low magnification 200-500x, then

when particles were seen, higher magnification was used to show morphological characteristics and to do spectral analysis. In this study, images of backscattered or secondary electrons were acquired using 15 kV accelerating voltage, 10 mm working distance, small beam spot, aperture #1, and 60 Pa vacuum (VP-SEM mode). EDS signals were acquired in either the spot analysis or mapping mode, with

dead time <20% and signal counts ~3000-5000 cps. Electron beam penetration depth under the conditions used is estimated to be 2.5 micrometers. Image files were named after the number of EDS site ID, which was consecutive from 1. Spectrum ID was also serial coded consecutively from 1. Once the images or spectra are acquired, the remaining assigned serial ID cannot be changed or replaced.

In studying 7 of the 8 blocks of Ms. Rausa by SEM/EDS, 2 non-fibrous talc particles were found in a single ~2-micrometer plane of her tissue blocks. These particles were within $\pm 5\%$ of the accepted Mg/Si atomic weight % ratio of 0.649. One of the talc particles was found in block 12B (left external iliac lymph node). and the second talc particle was found in block 17B (left para aortic lymph node).

In the study of the blocks on this case, a total of 515 particles were found and analyzed. Tissues may have carbonaceous material detected in backscattered electron imaging mode by their surface irregularity or other characteristics. Also, in many instances iron, sodium, phosphorus, and calcium may be found in tissues, especially in patients with malignancy. These elements are all considered endogenous to the tissues in this type of study. In the tissues studied of Ms. Rausa, 357 particles (70%) were endogenous; most had a calcium composition, either with oxygen alone, or in combination with various endogenous elements. One hundred fifty-eight (158) particles had a variety of constituents indicative of exogenous materials. The 2 talc particles that were found in the tissues all had magnesium and silicon in the accepted EDS spectral proportions for talc.

The technique used in the study of Ms. Rausa's tissues examines an extremely small volume of tissue. Comparable studies have been done with asbestos fibers in tissue sections (reference 8), and the finding of one fiber in a tissue section comparable to the amount of tissue studied here would indicate at least 100 fibers per gram of tissue which is indicative of a substantial exposure. If similar approaches were applied to the findings of this study, indications are that substantial amounts of talc were present in the patient's pelvic tissues. The findings of 2 talc in 2 out of 7 tissue blocks by analytical microscopy, using this approach indicates that a significant amount of talc is present within the tissues. In published studies (references 1, 2, 5, 9), significant numbers of talc particles were detected in pelvic tissues in women with ovarian cancer and a history of perineal talc use.

Figure 4 on the following page shows the morphology of the two talc particles detected in this case, and their EDS spectra (block 12B, spectrum 44; block 17B, spectrum 431). In both these instances, the atomic weight % ratio of magnesium to silicon is the ratio expected for talc (spectrum 44 = 0.640, spectrum 431 = 0.660, both within $\pm 5\%$ of the accepted ratio 0.649). The magnesium, silicon, and oxygen peaks are

labeled by the software of the instrument, which is periodically checked to assure that known elemental materials are properly identified.

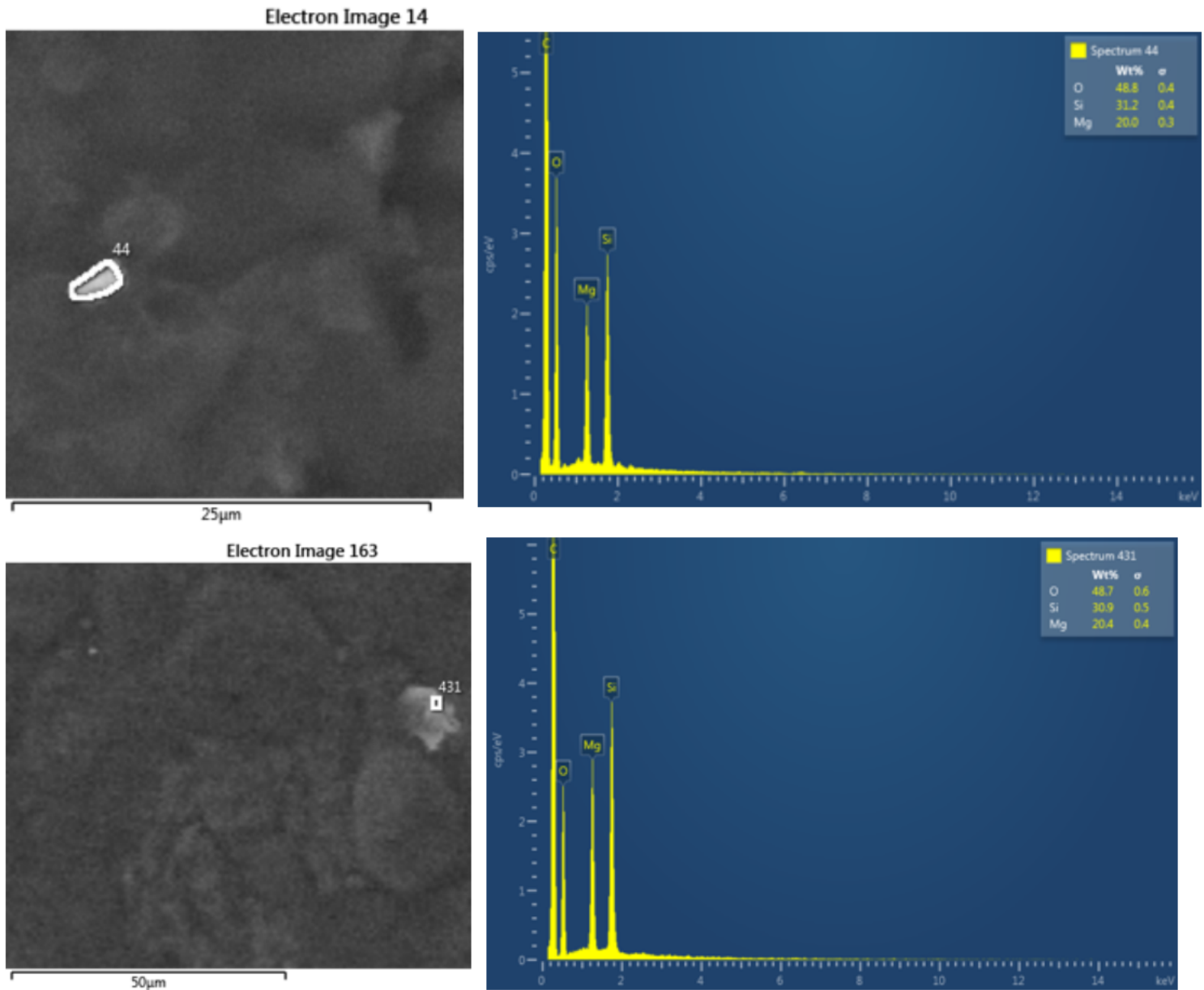


Figure 4. Upper Left. SEM image 14 of a particle in left (block 12B) in backscatter mode. This particle is within tissue and is polygonal and non-fibrous. Using the scale on the photo, the particle is <5 microns in greatest dimension. **Upper Right.** The EDS spectrum (44) of this particle is shown with magnesium, silicon, and oxygen labeled. Magnesium and silicon have the atomic weight % ratio expected for talc, 0.640 which is within $\pm 5\%$ of the accepted ratio 0.649. **Lower Left.** SEM image of a particle in left para-aortic lymph node (block 17B) in backscatter mode. This particle is within tissue and is polygonal and non-fibrous. Using the scale on the photo, the particle is ~10 microns in greatest dimension. **Lower Right.** The EDS spectrum (431) of this particle is shown with magnesium, silicon, and oxygen labeled. Magnesium and silicon have the atomic weight % ratio expected for talc, 0.660 which is within $\pm 5\%$ of the ratio 0.649.

Therefore, based on the findings of this case, it can be stated to a reasonable degree of medical certainty, that the talc found in this case is contributory evidence for a causal link between the presence of talc and

the development of this patient's ovarian cancer. All opinions expressed in this report are to a reasonable degree of medical and scientific certainty.

Sincerely,



John J. Godleski, MD
Professor Emeritus of Pathology

References:

1. McDonald, SA, Fan Y, Welch, WR, Cramer, DW, Stearns, RC, Sheedy, L, Katler, M, Godleski JJ. Correlative polarizing light and scanning electron microscopy for the assessment of talc in pelvic lymph nodes. *Ultrastruct Pathol* 43:13-27. 2019. DOI 10.1080/01913123.2019.1593271. PMID: 30898001.
2. McDonald SA, Fan Y, Welch WR, Cramer DW, Godleski JJ. Migration of talc from the perineum to multiple pelvic organ sites: five case studies with correlative light and scanning electron microscopy. *Am J Clin Pathol* 152: 590-607, 2019. <https://doi.org/10.1093/ajcp/aqz080>. PMID: 31305893 PMCID: PMC6779257.
3. McDonald SA, Fan Y, Rogers RA, Godleski JJ. Magnesium/silicon atomic weight percent ratio standards for the tissue identification of talc by scanning electron microscopy and energy dispersive X-ray analysis. *Ultrastruct Pathol* 43: 248-260, 2019. DOI 10.1080/01913123.2019.1692119. PMID: 31736386.
4. Champion A, Smith KJ, Fedulov AV, Gregory DZ, Fan Y, Godleski JJ. Identification of Foreign Particles in Human Tissues Using Raman Microscopy *Analytical Chemistry* **2018** 90 (14), 8362-8369 DOI: 10.1021/acs.analchem.8b00271 PMID:29894163
5. Sato E, McDonald SA, Fan Y, Peterson S, Brain JD, Godleski JJ: Analysis of particles from hamster lungs following pulmonary talc exposures: implications for pathogenicity. *Part Fibre Toxicol* 2020; 17:20. <https://doi.org/10.1186/s12989-020-00356-0>. PMID: 32498698 PMCID: PMC7271432.
6. Johnson KE, Popratiloff A, Fan Y, McDonald S, Godleski JJ. Analytic comparison of talc in commercially available baby powder and in pelvic tissues resected from ovarian carcinoma patients. *Gynecol Oncol* 2020; 159: 527-533. PMID: 32977988.
7. Abraham JL, Thakral C. Automated scanning electron microscopy and X-ray microanalysis for in situ quantification of gadolinium deposits in skin. *Microscopy* 2007; 56: 181-187. PMID: 17951398.
8. Roggli VL, Pratt PC. Numbers of asbestos bodies on iron-stained tissue sections in relation to asbestos body counts in lung tissue digests. *Hum Pathol* 1983; 14: 355-361. PMID: 6299925.
9. Cramer DW, Welch WR, Berkowitz RS, Godleski JJ. Presence of talc in pelvic lymph nodes of a woman with ovarian cancer and long-term genital exposure to cosmetic talc. *Obstet Gynecol* 2007; 110: 498-501. PMID:

Exhibit A

Harvard Medical School/Harvard School of Dental Medicine

Format for the Curriculum Vitae

Date Prepared: November 14, 2020

Name: John J. Godleski

Office and Home Address: 304 Central Avenue
Milton, Massachusetts 02186

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Work Email: jgodlesk@hsph.harvard.edu

Cell Phone: 617-840-9679

Place of Birth: Nanticoke, Pennsylvania

Education

1965	BS	Biology	King's College, Wilkes- Barre, PA
1969	MD	Medicine	University of Pittsburgh, Pittsburgh, PA

Postdoctoral Training

1969-1970	Intern	Pathology	Massachusetts General Hospital
1970-1971	Assistant Resident	Pathology	Massachusetts General Hospital
1969-1972	Teaching Fellow	Pathology	Harvard Medical School
1971-1972	Research Fellow	Physiology	Harvard School of Public Health
1971-1973	Teaching Fellow	Pathology	University of North Carolina, Chapel Hill

Faculty Academic Appointments

1973-1978	Assistant Professor	Pathology	Medical College of Pennsylvania
1976-1978	Assistant Professor	Pathology, Graduate Faculty	Medical College of Pennsylvania
1978-1984	Assistant Professor	Pathology	Harvard Medical School
1978-1984	Assistant Professor	Environmental Health	Harvard School of Public Health
1984-2015	Associate Professor	Pathology	Harvard Medical School
1984-2015	Associate Professor	Environmental Health	Harvard School of Public Health

2015-2017	Professor	Pathology	Harvard Medical School
2015-2017	Professor	Environmental Health	Harvard TH Chan School of Public Health
2018-	Professor, Emeritus	Pathology	Harvard Medical School

Appointments at Hospitals/Affiliated Institutions

1973-1978	Assistant Pathologist	Pathology	Hospital of the Medical College of Pennsylvania
1973-1978	Attending Pathologist	Autopsy & Surgical Pathology Service	Hospital of the Medical College of Pennsylvania
1978-1980	Associate Pathologist	Pathology	Brigham and Women's Hospital
1978-1997	Attending Pathologist	Autopsy Pathology Service	Brigham and Women's Hospital
1978-2017	Consulting Pathologist in Pulmonary Diseases	Surgical Pathology Service	Brigham and Women's Hospital
1978-2017	Consulting Pathologist in Pulmonary Diseases	Autopsy Pathology Service	Brigham and Women's Hospital
1979-1986	Associate Pathologist	Pathology	Parker Hill Medical Center
1980-2001	Pathologist	Pathology	Brigham and Women's Hospital
2001-2017	Senior Pathologist	Pathology	Brigham and Women's Hospital

Other Professional Positions

1971-1973	Chief, Pathology Section, Pathobiology Branch, Environmental Biology Laboratory	Environmental Protection Agency
1973-1978	Director Inhalation Pathology Laboratory	Medical College of Pennsylvania
1976-1979	Consultant	Biosearch, Inc.
1980-1997	Consulting Pathologist	West Roxbury VA Hospital
1987-2005	Consulting Scientist	Forchung Centrum fur Umwelt und Gesundheit
1993-1996	Consultant	NIOSH Appalachian Laboratory
1998-2001	Consulting Scientist	RIVM
2001-2002	Consulting Pathologist, Inhalation Chemotherapy Program	Battelle Pulmonary Therapeutics, Inc.
2001-2005	Consultant	St. Lawrence Cement Company
2007	Invited Consultant	New York city Medical Examiner's Office regarding lung disease resulting from dust inhalation in connection with the terrorist attacks on 9/11/01
2007	Member of Delegation to China	Air and Waste Management Association

2010-	Consultant	University of Sao Paulo, Faculty of Medicine, Department of Pathology Environmental Research Program
2017-	Consultant	Harvard Nanoparticle Safety Center Harvard TH Chan School of Public Health
2017-	CEO/CFO	John Godleski, MD, P.L.L.C

Major Administrative Leadership Positions

Local

1978	Director, Autopsy Pathology Service	Hospital of the Medical College of Pennsylvania
1978-2015	Director, Pulmonary Pathology Division	Brigham and Women's Hospital
1988-2017	Director, Electron Microscopy Laboratories	Harvard School of Public Health
1996-2002	Principal Investigator: Mechanisms of Morbidity and Mortality Associated with Air Particles	NIH Program Project
1998-2016	Associate Director	Harvard-EPA Center for Ambient Particle Health Effects
2002-2008	Laboratory Coordinator	Peabody Society, General Pathology Course, Harvard Medical School
2004-2017	Harvard Faculty Coordinator	Faculty of Medicine University of Sao Paulo-Harvard School of Public Health - Medical Student Research Program
2006-2017	Director	Harvard-NIEHS Center Ambient Particle Research Core

National and International

1987	Seminar Chairman, Particle Deposition in Lung Compartments	US-FRG conference on Cooperation in Pulmonary Research, Boston
1988	Mini-Symposium Chairman and Invited Lecturer, Macrophages as Mediators of Pulmonary Disease	FASEB Annual Meeting, Las Vegas, NV
1988	Session Chairman, Structural and Biochemical Correlations and the Relationships Between Acute and Chronic Lung Injury	US-FRG Cooperative Program in Pulmonary Research Workshop: Structural Consequences of Biochemical and Cellular Changes in the Lungs Caused by Injury, G�nzburg, West Germany
1992	Organizer and Program Chairman, Plenary Lecture, Detection of Elements in Lung Cells and Tissue using ESI and EELS	First North American Zeiss CEM902 Users Meeting, Boston
1998	Organizing Committee, NIH Workshop on Inhaled Environmental Irritants and Allergens: Mechanisms of Cardiopulmonary and Systemic Responses	NIH workshop held in conjunction with American Thoracic Society Meeting, Chicago, IL
2002	Organizing Committee Chair, EPA Center Director's Meeting	EPA, Boston, MA

2006	Member, Organizing Committee, The Role of Air Pollutants in Cardiovascular Disease	Research Triangle Park, NC
2006	Organizing Committee Chair, EPA Center Director's Meeting	EPA, Boston, MA
2007	Organizing Committee Member, EPA Center Director's Meeting	EPA, Research Triangle Park, NC
2007	Invited Participant, NASA Lunar Dust Workshop	NASA, Goddard Space Center, CA
2013	Organizing Committee Member, EPA Center Director's Meeting	EPA, Seattle, WA

Committee Service

Local

1973-1978	Animal Usage and Facilities Committee	Medical College of Pennsylvania Member
1974-1978	Research Support Service Committee	Medical College of Pennsylvania Member
1975-1978	Resident Selection Committee, Department of Pathology	Medical College of Pennsylvania Chair
1979-1981	Current Practice Committee	Brigham and Women's Hospital Member
1980	Pathology House Staff Committee	Brigham and Women's Hospital Member
1981	Nominating Committee for Vice Chairperson of the Professional Staff	Brigham and Women's Hospital Member
1987, 1996	Autopsy Service Quality Assurance	Brigham and Women's Hospital Auditor
1987-1990	Committee on the Use of Human Subjects in Research	Harvard School of Public Health Member
1989-1998	Post-doctoral Fellow Selection Committee, Department of Pathology	Member
1993	Search Committee for Assistant Professor of Physiology	Harvard School of Public Health Member
1993-1995	Graduate Medical Education Committee	Member
1997-2017	Leadership Committee	Brigham and Women's Hospital Member
1997-2017	Thoracic Oncology Program Steering Committee	Brigham and Women's Hospital/Dana Farber Cancer Institute Member
2006-2017	NIEHS Center for Environmental Health Executive Committee	Harvard School of Public Health Member
2011-2016	Faculty Advisory Committee of the Brazil Studies Program at Harvard's David Rockefeller Center for Latin American Studies (DRCLAS)	Harvard University Member
2015-16	Search Committee for Assist Professor AB	Harvard TH Chan School of Public Health

National and International

1992	Organizing Committee	First North American Zeiss CEM902 Users Meeting, Boston, MA Organizer and Host
1997	Workshop on Particulate Air Pollution Research	Health Effects Institution, Boston, MA Member
1997	Particulate Matter Workshop Defining the Research Agenda on Particulate Pollution	EPA, Research Triangle Park, NC Member
1998	Peer Review Committee	Center for Indoor Air Research, Washington, DC Member
1999	Committee to Review the Fossil Energy Research Plan for Fine Particulates of the US Dept. of Energy	National Research Council/National Academy of Sciences, Washington, DC Member
1999-2001	Review Committee	EPA Air Quality Criteria Document on Particulate Air Pollution, Washington, DC Member
2000-2005	Advisory Committee	Southern California Center for Environmental Research, Los Angeles, CA Member
2001	Environmental Sciences Health Science Review Committee	NIEHS/NIH, Research Triangle Park, NC ad hoc Member
2002	Organizing Committee	EPA Center Director's Meeting, Rochester, NY Member
2002	Organizing Committee Member, EPA Workshop on Environmentally Induced Cardiovascular Disease	NIH, Research Triangle Park, NC Member
2002	External Advisory Committee	US EPA State of the Environment Report, Research Triangle Park, NC Member
2003	Review Committee	World Health Organization Document on Particulate Air Pollution Member
2006	Organizing Committee	The Role of Air Pollutants in Cardiovascular Disease, Research Triangle Park, NC Member
2006	Organizing Committee	EPA Center Director's Meeting Chair
2007	Organizing Committee	EPA Center Director's Meeting Member
2011-2012	Organizing Committee	Occupational Health and Safety Summit, Philadelphia, PA Member
2011-2013	National Particle Components Toxicity (NPACT) Report Review Panel	Health Effects Institute, International NPACT Report Review Panel, Boston, MA

2012	EPA Centers' Webinar Conference	Member EPA, Research Triangle Park, NC Organizer and Chair
2013-2014	Advanced Collaborative Emissions Study (ACES) Report Review Panel	Health Effects Institute, International ACES Report Review Panel, Boston, MA Member
2016-2017	Environmental Health Policy Committee of the American Thoracic Society	Member
2019-	Health Canada Talc Screening Assessment	Ad Hoc Expert

Professional Societies

1975-2015	International Academy of Pathology	Member
	1990-1992	Reviewer Abstract Review Committee, Atlanta, GA
	1991	Session Chair, Pulmonary Pathology, Annual Meeting, Chicago, IL
1976-2014	American Association for the Advancement of Science	Member
1976-2010	American Association of University Professors	Member
1979-	New England Society of Pathologists	Member
1985-2015	Boston Pulmonary Pathology Roundtable	Founding Member
1986-	American Thoracic Society	Member
	2008	Member, Program Committee, Environmental and Occupational Health Assembly, Annual International Meeting, Toronto, Canada
1988-	American Society for Investigative Pathology	Member
1990-	Microscopy Society of America	Member
1999-2013	International Society for Aerosols in Medicine	Member
	2011	Reviewer, Annual Mtg San Francisco, CA
2003-2008	American Association for Aerosol Research	Member
2005-	Pulmonary Pathology Society	Member
2006-2014	Air and Waste Management Association	Member

Grant Review Activities

1981	Toxicology Special Study Section	NIH Member
1985-1986	Program Project Special Study Section	NIH Member
1987	NIEHS Special Study Section on Acid	NIH

	Aerosols	Member
1987	NHLBI Special Study Section on Pulmonary Fibrosis	NIH Member
1988	Health Effects Institute Study Section	HEI
1988	Fogarty International Fellowships Special Study Section	NIH Member
1993	NIEHS Special Study Section on Oxidant Air Pollutants	NIH Member
1994	NIEHS Program Project Study Section	NIH
1997	NIEHS Special Study Section on Oxidant Mechanisms	NIH Member
2002	Investigative Programs at University of Leuven	University of Leuven, Belgium Reviewer
2003	ZRG1 CDF-3 S10 Study Section	NIH Member
2003-2004	NIEHS Special Study Section on Mentored Training Program Grants	NIH Member
2003	Health Canada Research Grants	Canadian Government ad hoc Reviewer
2003	Southern California Particle Center Pilot Project Grants	ad hoc Reviewer
2004	NEIHS Special Study Section on Mentored Training Program Grants	NIH Member
2004	Study Section on Nanoparticle Research Grants	EPA Member
2004	NIEHS Special Study Section on Superfund Research Application	NIH Member
2005	NIEHS Special Study Section on K-08 Training Grants and K-24 Grants	NIH Member
2007	Study Section on Coarse Particle Research Grants	EPA Member
2007	NCI Special Study Section on Lung Cancer and Inflammation	NIH Member
2013-14	Kentucky Science and Engineering Foundation (KSEF)	ad hoc Reviewer

Editorial Activities

Ad hoc reviewer

Advances in Public Health

American Journal of Pathology

American Journal of Respiratory and Critical Care Medicine

American Review of Respiratory Disease Chest

Circulation

Circulation Research

Environmental Health

Environmental Health Perspectives

Environmental Pollution
 Environmental Research
 Inhalation Toxicology
 Journal of Air and Waste Management Association
 Journal of Global Health
 New England Journal of Medicine
 Toxicology Letters
 Toxicological Sciences

Other Editorial Roles

1998-2004	Editorial Board Member	Inhalation Toxicology
2003-	Editorial Board Member	Journal of Pneumology
2011	Guest Editor - Toxicological Evaluation of Realistic Emission Source Aerosols (TERESA)	Inhalation Toxicology
2011-	Editorial Board Member	Journal of Environ & Analytic Toxicology
2012-	Editorial Board Member	ISRN Pulmonology
2012-2016	Editorial Board Member	Circulation
2013-	Editorial Board Member	Advances in Public Health

Honors and Prizes

1965	Aquinas Society Honor	King's College
1967	First Award	SAMA-Mead Johnson Scientific Forum
1975	Medical student research	NIH, NHLBI
	Pulmonary Young Investigator Award	
1978	Golden Apple Award for Outstanding Teaching	Medical College of Pennsylvania
1981	Father of the Year	Town of Weston, MA Weston Recreation Program
1982	Traveling Fellowship to Poland	National Academy of Sciences
1988	US-FRG Cooperative Program in Pulmonary Research	National Institutes of Health
1989	Honorary Fellow	Polish Society of Pathologists
2011	Alumni Profile	King's College, King's Pride Magazine
2016	Cub Scout Hero Award	Troop 42 Boy Scouts of America Quincy, MA
2019	Outstanding Professional Achievement	King's College Wilkes-Barre, PA

Report of Funded and Unfunded Projects

Funding Information Costs included are the amounts that were available in financial records.

Past Funded

- 1975-2021 Training in Interdisciplinary Pulmonary Sciences
NIH T32 HL007118
Mentor-consultant
Training Grant for pre- and post-doctoral trainees in Interdisciplinary Pulmonary Sciences
Lung Macrophage Antigens: Markers of Age and Function
- 1981-1991
- 1981-1991 NIH RO1; HL27244
Principal Investigator
Total Direct Costs: ~ \$1,250,000
Goals- To identify distinctive phenotypic surface antigens on lung macrophages, and th
characterize the molecular identity of these antigens
- 1983-1995 Inhaled Particle Retention in Normal and Disease Lungs
NIH HL31021
Principal Investigator
Total Direct Costs: ~\$1,900,000
Goals- To define the patterns of inhaled particle distribution in animal models of
pulmonary fibrosis, emphysema, and chronic bronchitis. To identify morphologically the
short-term and long-term clearance patterns of inhaled particles deposited on airways and
within alveolar parenchyma
- 1985-2020 Vascular, Pulmonary and Renal Injury
NIH T32 HL007627
Mentor-consultant
This Ruth L. Kirschstein Institutional National Research Service Award (T32) is focused
on the postdoctoral training of M.D., M.D.-Ph.D., and Ph.D. candidates to prepare them to
pursue independent careers as successful Clinician-Scientists and/or Biomedical Research
Scientists, whose primary interest is the cellular and molecular mechanisms of human
disease.
- 1991-1994 Regulation of Gene Expression in the Differentiation of Lung Macrophages: Fellowship
for Joseph Paulauskis, PhD
Francis Families Foundation
Mentor to Fellow/Principal Investigator
Total Direct Costs: \$100,000
Goals- To provide salary and research support for Dr. Paulauskis' transition from post-
doctoral research fellow to a faculty position.
- 1991-1996 SCOR Grant: Chronic Disease of the Airway. Project 5: The Role of IL-8 in the Initiation
of Inflammation in Chronic Bronchitis
NIH HL19170
Leader, Project 5
Goals- To assess the role of macrophages and epithelial cells in chemokine and cytokine
responses and their contribution to inflammation in chronic bronchitis
- 1993-1995 Prognostic Factor Analysis in Stage I NSCLC
NIH CA60572
Co-Investigator

- Goals- To assess the prognostic importance of multiple histological and molecular parameters in 200 cases of stage 1, non-small cell lung cancer.
- 1995-1998 Mechanisms of Morbidity and Mortality from Exposure to Ambient Air
Health Effects Institute HEI 95-9
Principal Investigator; \$609,494 Total Costs
Goals: To develop a large animal model in which to assess the pulmonary and cardiac effects of concentrated ambient air particles.
- 1995-2000 Superfund Toxic Substances: Exposure and Disease. Project 6: Pathogenesis of Toxicity of Vanadium
NIH PO1-ES05947
Leader, Project 6
Goals: To assess the response of alveolar macrophages to vanadium and to define mechanisms of toxicity.
- 1996-1999 Pathophysiologic Mechanisms of Mortality Associated with Exposure to Concentrated Particle Urban Air Toxics
EPA R-825-242
Principal Investigator
Total Direct Costs- \$588,372
Goals- To assess pathophysiological mechanisms including pulmonary inflammation associated with exposure to ambient air particulate, and to determine components in the exposure responsible for the outcomes.
- 1997-1999 Canicular Mechanisms of Bile Formation
NIH RO1 DK53512
Site Principal Investigator; \$29,338 Total Indirect Costs
Goals- To provide analytical electron microscopy support to identify the location and translocations of fluorinated bile salts.
- 1997-2003 Mechanisms of Morbidity/Mortality Due to Air Particles
NIH PO1 ES08129
Principal Investigator; \$6,400,065 Total Costs
Goals- To identify pulmonary, cardiovascular, and systemic responses to inhaled concentrated ambient particles and to explore pathophysiological mechanisms to explain these responses.
- 1999-2001 Cardiac Response Mechanisms Associated with Exposure to Concentrated Ambient Air Particles
Health Effects Institute
Principal Investigator; \$378,626 Total Costs
Goals- To assess heart rate, heart rate variability, T-wave alternans and effects of cardiac ischemia on inhaled concentrated ambient particles.
- 1999-2004 Ambient Particle Health Effects: Exposure, Susceptibility and Mechanisms
EPA
Co-Director of Center; \$5,055,515 Total Costs
Goals- To develop a comprehensive approach to determining the acute effects of exposure to increased levels of ambient air particulate.
- 1999-2005 Ambient Particles and Cardiac Vulnerability in Humans
NIH PO1-2509825
Co-Investigator
Goals- To assess cardiovascular outcomes with exposure to ambient particulate in people.

- My role in this grant was to co-ordinate and inform investigators of new data from animal studies.
- 2001-2002 NCCR Share Instrument Grant: Scanning Electron Microscopy System
NIH SIO RR14653-01
Principal Investigator; \$315,770 Total Costs
Goals- To purchase a scanning electron microscope for our program and for a multi-user group within the Harvard Medical area.
- 2002-2007 Oxidant Mechanisms in Response to Ambient Air Pollution
NIH RO1 HL68073
Co- Investigator
Goals: To assess the pulmonary and cardiac effects of ambient particulate air pollution using *in vivo* chemiluminescence.
- 2002-2007 Harvard Lung Cancer Spore: Pathology/Tissue Bank Core
NIH P50 CA090578
Core Director; \$126,020 Total Costs Core Only
Goals: To provide pathology support including histopathological interpretation, immunoperoxidase staining, and tissue bank storage of lung cancer cases for use in correlative studies.
- 2002-2010 Comparative Toxicity of Secondary Coal Combustion and Mobile Source Emissions
Electric Power Research Institute EP-P10983/C5530
Co-Principal Investigator; Annual direct cost \$1.2 million
Goals: To develop and test an exposure system in which the emissions of power plants are aged and reacted with natural pollutants and then used to expose experimental animals.
- 2002-2018 Graduate Training in Biostatistics
NIH T32 ES07142
Mentor-consultant
To prepare pre-doctoral and postdoctoral fellows for research in the application of biostatistics to environmental health
- 2004-2010 Cardiac Vulnerability Due to Ambient Particulates
NIH ES012972
Principal Investigator; \$2,867,655 Total Costs
Goals: To expand our understanding of the mechanisms of air particulate exposure on the cardiovascular system.
- 2005-2010 EPA Center: Ambient Particle Health Effects: Novel Exposure Scenarios to Define the Health Effects of Particle Sources
EPA RD-83241601-3
Associate Director; \$ 2,722,457 Total Indirect Costs
- 2010-2013 Statistical Methods for the Effects of Multiple Air Pollution Constituents
HEI 5523805
Co-Investigator
- 2008-2014 The Epidemiology of Molecular Alterations in Mesothelioma
NIH RO1 CA126939
- 2011-2016 EPA Center: Harvard Clean Air Research Center
EPA RD 83479801
Associate Director and Head of Project 1
Supports toxicological studies, epidemiological studies, field monitoring, and laboratory studies of components of ambient air particles and their effect on health. Project 1:

- Animal toxicology studies assessing primary and secondary traffic-related particles on the lung, heart and central nervous system.
- 2014-2019 Occupational and Environmental Health Center Grant
NIH ES000002
Director and Investigator, Particle Research Core; \$3,475,539 direct Total Costs;
\$127,000 Total direct Costs for the Core
Through the organizational structure and financial support provided by the NIEHS Center Grant, investigators will increase the impact of their research and teaching in environmental health. In toto, the Harvard NIEHS Center for Environmental Health is a major focal point for environmental research and training in Boston. The NIEHS Center mechanism enhances connections and is part of a national and international network.
- Unfunded**
- 2011-2016 Multi-Institutional SPORE in Malignant Pleural Mesothelioma
NIH P50 CA
Co-Director of the SPORE, Core Leader-Tissue and Pathology Core, Project Leader – Developmental Research Program
Goals: In this Spore proposal, our goals are to standardize the way malignant pleural mesothelioma is treated by defining the elements that allow patient classification and personalized treatments, and by using the pooled resources to define and validate screening tests, new personalized targeted therapies and new insights into the pathobiology of this disease. By better defining the roles of key biological pathways and creating novel early-detection methods, our findings should pave the way to new therapeutic approaches in malignant pleural mesothelioma and lead to improved patient survival. Not Funded.
- 2011-2016 Chronic stress, aging, and air pollution susceptibility
NIH 1 RO1 AG039590-01A1
Co-Principal Investigator
Goals: Epidemiologic and toxicological evidence indicates that chronic stress – through alterations in immune response, inflammation, metabolic or autonomic function (collectively, ‘allostatic load’) -- may alter individual susceptibility to physical toxins, hastening the physiologic processes of aging. Profound spatial confounding between stressors and pollution in the community setting, however, limits the utility of epidemiologic methods alone to disentangle their effects or establish directionality in interactions, and cannot identify physiologic mechanisms. Our study employs a unique toxicological exposure paradigm to explore two key constructs of aging: (1) accumulated burdens of physical and psychosocial exposures over time, and (2) heightened susceptibility of an aged system – to examine two key aging-related outcomes: cardiovascular illness and cognitive decline. Not Funded.
- 2012-2017 Social Stress and Air Pollution
NIH
Site Principal Investigator
Goals: Dr. Godleski and his laboratory at HSPH will be responsible for the performance of laboratory experiments using the Harvard Ambient Particle concentrator in the Inhalation Laboratory at HSPH. They will carry out the social stress model studies in laboratory rats and then expose them to either filtered air or concentrated ambient particles. Not Funded.
- 2013-2017 NCCLC-Center for Life Cycle Environmental Health and Safety Implications of Nano Enabled Products (NEPs)
NSF-EPA

Project Two Leader

Goals: This project proposes to establish a multidisciplinary Center to assess and address environmental health and safety implications of nano-enabled products (NEP) throughout their life cycle. The Center includes 3 highly inter-disciplinary and integrated research projects that collectively address key scientific questions across the NEP manufacturing-nanorelease/exposure-disease continuum. Not Funded

- 2014-2018 A Novel Toxicological Approach to Urban Health Disparities [1R01HL122279-01](#) (MPI)
Principal Investigator, MPI with Dr. Jane Clougherty
Goals: This project proposes to apply a novel toxicological exposure paradigm, wherein in we expose rats to chronic social stress (Social Dominance Paradigm) and traffic-related urban air pollution (TRUAP) -- to explore their separate and synergistic effects on continuous respiratory and cardiovascular function (using telemetry), to test the hypothesis that these stresses function through complementary but separate mechanisms, and by using varying levels of TRUAP exposure and chronic stress to reduce and eliminate health disparities. – Not funded.
- 2015-2020 Urban Air Pollution, Social Stress and Health Disparities [1P50ES026095-01](#) Principal Investigator. Goals: Program project intended to study Stress and Air Pollution using both epidemiologic and toxicological approaches to define health disparities. Not funded.
- 2015-2020 Cardio-pulmonary effects of fine particles and stress [1R01ES025771-01](#) (MPI) Principal Investigator; MPI with Dr. Jane Clougherty. Goals: Studies to assess traffic related air pollution and social stress in development of cardio-pulmonary disease using animal models . – Not Funded.
- 2017-2022 Toxicological screening of nanoparticle toxicity. 1R01ES026633-02 NIH PI- Dr.Philip Demokritou. Co-investigator; Goals: To develop a toxicological paradigm for in vitro and in vivo testing of selected nanoparticles at various stages of their life cycle. Not Funded
- 2017-2021 Air pollution and chronic degenerative disease: mechanisms and strategies to advance health of aging population. 1R01-AG052713-02 NIH PI - Dr. Federika DelMonte. Co-investigator. Goals: To determine the role of air pollution in mouse models of cardiac failure and degenerative neurological disease. Not Funded.
- 2017 Coherent Anti-Stokes Raman Scattering imaging NIH S10 application PI –Dr. Arthur McClellan. Co-investigator. Goals: To purchase an instrument that could be used to identify the chemical composition of foreign particles in tissues by Raman spectroscopy and with polarized light microscopy, using routinely prepared, H&E stained, tissue slides. Not Funded

Report of Local Teaching and Training

Teaching of Students in Courses

1973-1978	Pulmonary Pathology 75 medical students	Medical College of Pennsylvania 1-hr lecture/wk for 8 wks
1973-1978	Pathology Course Laboratories 18 medical students	Medical College of Pennsylvania 6 hrs/wk for 3 mos
1974-1978	Endocrine Pathology, Carcinogenesis, Neonatal Pathology	Medical College of Pennsylvania

1979-2001	75 medical students Pathophysiology of Infectious Diseases Laboratories	1-hr lecture/wk for 8 wks Harvard Medical School
1980-	20 medical students Respiratory Pathophysiology medical students	8 hrs contact Harvard Medical School Available for tutorial
1983-1986	Human Pathology 100 medical students	HMS-HST 1-hr lecture
1984	Infectious Diseases (Pathology of Granulomata) 100 medical students	Harvard Medical School 1-hr lecture
2002-2007	General Pathology Laboratory medical students	Harvard Medical School 8 2-hr sessions
2007-2015	Immunology, Microbiology and Pathology Laboratory Harvard medical students	Harvard Medical School 8 2-hr sessions
2007-2017	Research in Physiology -- HSPH students in Environmental Health Department	Harvard School of Public Health 16 2-hr sessions
2014	Urban adaptation to Climate Change- School of Engineering and Applied Sciences 50 students	1-hr lecture; Harvard Medical School
2015-2016	Foundations in Pathology – Discussion Leader in 6 sessions, secondary teacher 4 Sessions.	10 2-hr sessions

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

1988-2017	Pulmonary Pathology Pathology residents	Dept. of Pathology, BWH 1hr lecture
1996-2005	Thoracic Oncology Program Clinical Conference 10 oncology fellows	BWH 1-hr conference/mo
1998-2016	Thoracic Surgery Conference Thoracic surgeons	BWH 1-hr conference/wk
2000-2016	Pulmonary Pathology, Surgical Pathology Conference Pathologists	BWH 1-hr conference/wk
2001-2016	Pulmonary Medicine, Radiology and Pathology Conference Pulmonologists	BWH 26 1-hr conferences/wk

Clinical Supervisory and Training Responsibilities

1973-1978	Attending Pathologist Surgical and Autopsy Pathology service coverage responsible for diagnoses and Resident training. Medical College of Pennsylvania	25 weeks per year
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1975-1978	Responsible for Recruitment of Pathology Residents and coordination of the Pathology Residency Program, Medical College of Pennsylvania	10 hrs/wk
1978-2015	Responsible for Pulmonary Pathology Program supervision and training of pulmonary pathology fellows and residents rotating through the service BWH	2 hrs/wk oversight and administration
1978-1985	Attending Pathologist, Pulmonary Pathology Service, BWH	2 hrs/day for 50 wks/yr
1978-1997	Attending Pathologist Autopsy Service, BWH	10 wks/yr
1985-1999	Attending Pathologist, Pulmonary Pathology Service, BWH	2 hrs/day for 26 wks/yr
1999-2017	Attending Pathologist, Pulmonary Pathology Service, BWH	3 hrs/day for 20 wks/yr
2014-2017	Attending Pathologist Autopsy Service, BWH	4 wks/yr

Laboratory and Other Research Supervisory and Training Responsibilities

1974-1978	Organizer and Participating Pathologist in Staff CPC's in Pathology Course, Medical College of Pennsylvania	4 per year
1976-1978	Organized and Administered Final Laboratory Examination in Pathology Course Medical College of Pennsylvania	1 per year
1976-1978	Organized and delivered introductory lectures in Pathology for House Staff, Medical College of Pennsylvania Hospital	6 per year
1983	Pathology Coordinator and Lecturer, Pathophysiology of Infectious Disease Course, Harvard Medical School	
2002-2008	Laboratory Coordinator, Peabody Society, General Pathology Course, Harvard Medical School	

Formally Supervised Trainees (HMS Research Fellows indicated by *)

- *1978-1980 Jeffrey Goldstein, MD Pathologist, Baptist Medical Center, Jacksonville Florida
Primary mentor in pulmonary pathology. Fellowship in pulmonary pathology resulted in two clinical papers, one research paper as a fellow. As an academic pathologist, he has a substantial list of publications.
- *1979-1982 Franci Tryka, MD Retired Associate Professor, Univ of Arkansas. Practice of pathology, Jackson Hole, Wyoming. Dr. Tryka is now retired.
Primary mentor in pulmonary pathology and research. Fellowship in pulmonary pathology

- resulted in two clinical publications, and seven research publications as a fellow. As an academic pathologist, she has a substantial list of publications.
- 1982-1986 Angeline Warner, DVM, SD/Dean of Students, Tufts School of Veterinary Medicine
Member of doctoral committee. Dr. Warner has been a clinical veterinarian at HMS and has become an outstanding academic administrator at Tufts Veterinary School.
- *1983-1986 Lester Kobzik, MD/HMS-BWH Professor of Pathology and Former Director, Molecular and Integrative Physiological Sciences, Harvard School of Public Health
Primary mentor in pulmonary pathology and research. Fellowship in pulmonary pathology resulted in seven high quality research papers while a fellow and early junior faculty member. Dr. Kobzik has become a leading physician scientist in pulmonary pathology, commensurate with his positions. Dr. Kobzik is now retired.
- 1985-1988 Colette Bizal, SD/Director, Sky Hill Institute
Member of doctoral committee.
- 1985-1988 Donald K Milton, MD, SD/Professor and Chair, Environmental and Occupational Health Dept, University of Maryland School of Public Health
Member of doctoral committee.
- 1987-1990 Joseph Paulauskis, PhD Professor of Pathology, Director of Biorepository University of Michigan, Former CEO Paradigm Biologics, Ann Arbor, MI. Former Vice President, Research and BioBanking at International Genomics Consortium, Adjunct Associate Professor, University of Michigan
Primary mentor as post-doctoral fellow in respiratory biology. Gained a Parker B. Francis fellowship, had three primary publications as a fellow and seven more as an early junior faculty member with my influence. From 2001-2009 was Senior Director/Global Head of Pharmacogenomics at Pfizer R&D.
- 1988-1990 Tasneem Lalani, MS, MD/Private practice
Mentor for master degree and master thesis
- 1989-1992 Robyn Rufner, PhD/ Former Director of Electron Microscopy/George Washington Univ
Primary mentor as postdoctoral fellow. Multiple technical publications.
- 1990-1991 Andrew Smith, SD
Member of doctoral committee; tutorial student.
- 1993-1996 Lisa Marchessault Pierce, DS/Director, Surgical Molecular Biology, Seattle
Member of doctoral committee; co-mentor in laboratory research with Dr. Joseph Paulauskis; Published 3 papers as a graduate student.
- 1993-1996 Gregory Grabowski, PhD/ Professor and Chair, Department of Biology, Univ of Detroit, Mercy. Primary mentor as postdoctoral fellow; One publication.
- 1994-1997 Michael Shi, PhD/Senior Director, Novartis
Primary mentor as postdoctoral fellow. Received individual NRSA grant. Published 5 high quality publications as a postdoctoral fellow including his publication in the Journal of Biological Chemistry showing that reactive oxygen species alone may induce chemokines.
- 1994-1997 Stella Tsai, MD, SD/University of Taiwan
Member of doctoral committee.
- 1995-1998 Costas Sioutas, SD/ Professor of Environmental Engineering, Univ of Southern California.
Member of doctoral committee. Primary mentor in developing the Harvard Ambient Particle Concentrator for use in animal exposures. Five high quality publications as a student.
- 1996-1997 Rebecca Stearns, MA/Technical Director, Electron Microscopy Lab, Harvard School of

- Public Health. Primary mentor for master's degree and laboratory research. One highly quoted publication as a graduate student. Multiple publications as technical director of electron microscopy laboratory.
- 1996-1998 Eric Lovett, PhD/Bioengineering, CPI Guidant
Co-mentor as a post-doctoral fellow with Dr. Richard Verrier.
- *1997-2000 Robert W. Clarke, PhD/ CEO, Pulmatrix
Primary mentor as post-doctoral fellow. Five high quality, highly cited publications while a post-doctoral fellow. Credited in multiple reviews of air pollution toxicology literature with the first toxicological publication using inhalation of concentrated ambient particles.
- *1998 Sara Vargas, MD/Associate Professor of Pathology, Children's Hospital and Harvard Medical School, Boston
Primary mentor in pulmonary pathology. Fellowship in pulmonary pathology resulted in multiple co-authored clinical papers.
- 1998-2001 Brent Coull, PhD/Professor of Biostatistics, Harvard School of Public Health
Co-mentor as post-doctoral fellow with Dr. Paul Catalano. One statistical methods paper as a post-doctoral fellow, and multiple co-authored publications with significant statistical contributions.
- 1999-2002 Joao Batalha, MD, PhD/Associate Professor, Univ of Sao Paulo
Primary mentor for post-doctoral fellowship. Authored one of the most cited papers in particulate air pollution research showing vasoconstriction of the pulmonary vasculature.
- 1999-2002 Nan-Fei Jiang, PhD/Senior Scientist, BioTrove
Co-mentor as post-doctoral fellow with Dr. Joseph Paulauskis.
- *2000-2001 James R. Stone, MD, PhD/Assistant Professor of Pathology, Massachusetts General Hospital, Harvard Medical School, Boston
Primary mentor in pulmonary pathology. Fellowship in pulmonary and cardiac pathology resulted in several clinical papers.
- 2000-2003 Sara Savage, DVM/Associate Director of Animal Services, Genzyme, Inc.
Primary mentor in for post-doctoral fellowship. One excellent first author paper, and co-authored several others.
- 2001-2004 Gregory Wellenius, ScD/Associate Professor, Brown University School of Medicine
Primary mentor for his doctorate degree. His thesis included 5 high quality publications one of which a peer reviewer predicted would be a paper likely to be most highly cited in air pollution research. Won Edgar Haber award for best HSPH thesis in laboratory research.
- 2002-2005 Miriam Lemos, PhD/ Research Scientist, Dept. of Pathology, Univ of Sao Paulo, Brazil
Co-mentor as post-doctoral fellow with Dr. Beatriz Gonzalez-Flecha.
- 2002-2005 Edgar Diaz, MD/ Administrative coordinator NSF Center on Climate, University of San Diego; Former Research Scientist in Molecular and Integrative Physiological Sciences, Harvard School of Public Health. Primary mentor as post-doctoral fellow. Co-authored multiple publications.
- *2003-2004 Robert Padera, MD, PhD/Associate Professor of Pathology, Brigham and Women's Hospital and Harvard Medical School Primary mentor in pulmonary pathology.
Fellowship in pulmonary and cardiac pathology resulted in several clinical papers.
- 2003-2006 Pablo Ruiz, ScD/Scientist, Chilean Air Pollution Program
Member of Member of doctoral committee; co-mentor in laboratory research with Dr. Petros Koutrakis in development of chamber and system for aged ambient aerosols.
- 2003-2006 Margaret Nikolov, ScD/Assistant Professor, Harvard School of Public Health

Member of Member of doctoral committee; co-mentor in laboratory research with Dr. Brent Coull in development of statistical methods for laboratory toxicologic data.

2006 Wesley Bonafe, MD/Physician in Ophthalmology, University of Sao Paulo, Brazil Primary mentor in one year visiting medical student program at HSPH.

2006 Guilherme Calomeni, MD/Academic Physician in Medicine, University of Sao Paulo, Brazil Primary mentor in one year visiting medical student program at HSPH.

2006 Guilherme Funaro, MD /Instructor in Psychiatry, University of Sao Paulo, Brazil Primary mentor in one year visiting medical student program at HSPH.

*2006 Jey Chen, MD, PhD/Primary mentor in pulmonary pathology.

2006-2007 Carlo Bartoli, MD, PhD University of Louisville; Resident in Cardiac Surgery Hospital of the University of Pennsylvania, Philadelphia, PA. Primary mentor in Master degree studies at Harvard Extension school. Published six papers based on his work, two of which are of high quality and frequently cited.

2006-2008 Brock Christensen, ScD/Assistant Professor, Dept of Community Medicine, Dartmouth Medical School
Member of doctoral research committee and primary mentor in assessment of asbestos exposure for tissue analyses.

*2007 David Wu, MD Primary mentor in pulmonary pathology.

2007 David Pares, MD MBA Program, Harvard Business School, Lemann Fellow, Former Entrepreneur/CEO Brazilian Company for Digital Medical Records Primary mentor with Dr. Richard Verrier in one year visiting medical student program at HSPH.

2007 Daniel Oliva MD /Instructor in Psychiatry, University of Sao Paulo, Brazil Primary mentor in one year visiting medical student program at HSPH.

2007 Filipe Mota/ Instructor in Psychiatry, University of Sao Paulo, Brazil Primary mentor in one year visiting medical student program at HSPH.

2007 Marcos Croce/Instructor in Medicine, University of Sao Paulo, Brazil Primary mentor with Dr. Richard Verrier in one year visiting medical student program at HSPH.

2007 Nikolas Heine/Instructor in Psychiatry, University of Sao Paulo, Brazil Primary mentor in one year visiting medical student program at HSPH.

2007-2012 Denise Lamoreaux/Post-doctoral Fellow, HMS Bioinformatics Program. Primary Mentor for Doctoral Studies at HSPH.

2008 Mariana Acar – Physician in Medicine, University of Sao Paulo, Brazil Primary mentor in one year visiting medical student program at HSPH.

2008 Marcello Carvas—Physician in Plastic Surgery, University of Sao Paulo, Brazil Primary mentor with Dr. Richard Verrier in one year visiting medical student program at HSPH.

2008 Bruno Nacimento Physician in Plastic Surgery, University of Sao Paulo, Brazil Primary mentor with Dr. Richard Verrier in one year visiting medical student program at HSPH.

*2008-2009 Lynette Scholl, MD/Associate Professor of Pathology, Brigham and Women’s Hospital, Harvard Medical School Primary mentor in pulmonary pathology.

2009 Gabriel Andrade Vaz/ Physician, University of Sao Paulo, Brazil Primary mentor with Dr. Richard Verrier in one year visiting medical student program at HSPH.

2009 Yasser Calil/ Practicing Physician, Amazonia, Brazil Primary mentor in one year visiting medical student program at HSPH.

2009 Ibere Datti/Physician in Medicine, University of Sao Paulo, Brazil Primary mentor with Dr. Richard Verrier in one year visiting medical student program at HSPH.

2009 Brenno Gomes/Physician in Medicine, University of Sao Paulo, Brazil

2009 Primary mentor in one year visiting medical student program at HSPH.
Vivian Hatakeyama/Physician in Ophthalmology, University of Sao Paulo, Brazil

2009 Primary mentor in one year visiting medical student program at HSPH.
Danilo Nanbu/ Physician in Pediatrics, University of Sao Paulo, Brazil Primary mentor with Dr. Richard Verrier in one year visiting medical student program at HSPH.

2009 Natascha Sandy—Physician in Pediatrics, University of Sao Paulo, Brazil Primary mentor with Dr. Richard Verrier in one year visiting medical student program at HSPH.

*2009-2010 Gina Cunto-Amesty, MD/Pathologist, Quest Diagnostics Primary mentor in pulmonary pathology.

2009-2011 Vasileios Papapostolou, ScD/Scientist California Air Resources Board. Post-doctoral fellow EER, Dept of Environmental Health HSPH. Member of doctoral committee; co-mentor in laboratory research with Dr. Petros Koutrakis in development of chamber and system for traffic-derived ambient aerosols.

2010 Helena Buonfiglio Resident in Medicine, University of Sao Paulo, Brazil Primary mentor in one year visiting medical student program at HSPH.

2010 Felipe Franco/Resident in Medicine, University of Sao Paulo, Brazil Primary mentor in one year visiting medical student program at HSPH.

2010 Vincente Mazzaro/Resident in Orthopedics, University of Sao Paulo, Brazil Primary mentor in one year visiting medical student program at HSPH.

2010 Paulo Yoo/Resident in Medicine, University of Sao Paulo, Brazil Primary mentor in one year visiting medical student program at HSPH.

*2010-2011 Wanghai Zhang, MD, Surgical and Pulmonary Pathologist, Univ of Massachusetts Medical Center Hospitals group Primary mentor in pulmonary pathology.

2010-2011 Justin Mih, PhD Entrepreneur. Member of Doctoral Thesis Committee, MIPS.

2011 Joao Paulo de Oliveira/Resident in Surgery, University of Sao Paulo, Brazil Primary mentor in one year visiting medical student program at HSPH.

2011 Rodrigo Sato/Resident in Medicine, University of Sao Paulo, Brazil Primary mentor in one year visiting medical student program at HSPH.

*2011-2012 Anthony Perry, MD, Anatomic Pathologist, St. Joseph's Hospital and Medical Center Phoenix, AZ. Primary mentor in pulmonary pathology.

*2011-2012 Michael Seidman, MD PhD, Assistant Professor of Pathology, University of British Columbia Primary mentor in pulmonary pathology.

*2011-2012 Paul VanderLaan MD, Assistant Professor of Pathology, Beth Israel-Deaconess Hospital Harvard Medical School. Primary mentor in pulmonary pathology.

2012 Lianna Tortato/ Resident in Surgery, University of Sao Paulo, Brazil, Primary mentor in one year visiting medical student program at HSPH.

2012 Hilario Francelino/ Resident in Medicine, University of Sao Paulo, Brazil, Primary mentor in one year visiting medical student program at HSPH.

2012-2015 Viviani Barnabe, PhD Assistant Professor and Director of Research University of Sao Paulo City. Post Doctoral Fellow, Department of Environmental Health, Harvard School of Public Health, Primary Mentor.

*2012-2013 Sara Pokerel, MD, PhD, Thoracic Pathologist, Rosewell Park Cancer Institute, Buffalo, NY Primary mentor in pulmonary pathology.

2013-2016 Alex Carll, PhD Assistant Professor University of Louisville, Dept of Pharmacology Post Doctoral Fellow, Department of Environmental Health, Harvard School of Public Health, Primary Mentor.

2013	Kuay Victor, Medical Student, University of Sao Paulo, Brazil, Primary mentor in one year visiting medical student program at HSPH.
2013	Thomás Jaeger, Medical Student, University of Sao Paulo, Brazil, Primary mentor in one year visiting medical student program at HSPH.
*2013-14	Marina Vivero, MD Assistant Professor of Pathology, Harvard Medical School, Thoracic Pathologist, Brigham and Women's Hospital Primary mentor in pulmonary pathology.
2013-14	Sebastian Gerbaudo, Graduate Student Johns Hopkins University, Framingham State University, Thesis Advisor.
2014	Douglas Zati/ Resident in Medicine, University of Sao Paulo, Brazil, Primary mentor in one year visiting medical student program at HSPH.
2014	Beatriz Lima/ Medical Student, University of Sao Paulo, Brazil, Primary mentor in one year visiting medical student program at HSPH.
2014	Samir Crespo/ Resident in Cardiology, University of Sao Paulo, Brazil, Primary mentor in one year visiting medical student program at HSPH.
2014-15	Talita Dias de Silva/ Member of the Faculty, University of Sao Paulo, Brazil, Primary mentor in one year visiting PhD student program at HSPH
*2014-15	Emil Racila, MD Assistant Professor of Pathology; Thoracic Pathologist University of Minnesota Medical School, Primary mentor in pulmonary pathology.
2015	Ana Laura Ricci/ Visiting PhD student University of Sao Paulo, Brazil, Primary mentor in one year visiting PhD student program at HSPH
2015	Mauricio Silva/ Resident in Medicine University of Sao Paulo. Visiting Medical Student, University of Sao Paulo, Brazil, Primary mentor in one year visiting medical student program at HSPH
*2015-2016	Prodipto Pal, MD Thoracic Pathologist University of Toronto, Former Fellow, Brigham and Women's Hospital, Mentor in pulmonary pathology.
2016	Guilherme S. Perez/ Medical Student, University of Sao Paulo, Brazil, Primary mentor in one year visiting medical student program at HSPH.

Formal Teaching of Peers (e.g., CME and other continuing education courses)

1979-1985	Chest Disease	
	Panel participant, Harvard Medical School	Boston, MA
1980	Chest Disease	1
	Participant, lecturer, session chairman, Harvard Medical School	Boston, MA
1982-1985	Pathology of Asthma	1
	Combined Clinical Immunology Conferences	Boston, MA
1983-1997	Pulmonary vascular disease; Pulmonary tumors; Needle biopsy of the lung	3
	Thoracic Surgery Conference Lecture Series, Brigham and Women's Hospital	Boston, MA
1985	Recent Advances in Pneumoconioses	1
	Current Concepts in Pulmonary Pathology, Massachusetts General Hospital	Boston, MA
1989	Pathology of Pneumoconioses	1
	Current Concepts in Pulmonary Pathology	Boston, MA

2005	Analytical Study of Asbestos Fibers, Postgraduate Current Concepts in Asbestos-Related Lung Disease, Harvard Medical School	1 Boston, MA
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Local Invited Presentations

No presentations below were sponsored by outside entities.

1992	Detection of Elements in Cells and Tissues of the Lung, Pathology Grand Rounds Massachusetts General Hospital
1994	Particulate Air Pollution and Pulmonary Cellular Responses, Pathology Grand Rounds Brigham and Women's Hospital
1996	The Legacy of the 6 Cities Program. New Research Directions. Public Health Rounds Harvard School of Public Health
1996	Mechanisms of Morbidity and Mortality Associated with Particulate Air Pollution. Work in Progress Seminar Physiology Program, Harvard School of Public Health
1997	Studies Using the Ambient Particle Concentrator. Presentation Harvard Environmental Health Council Academia and Industry Symposium
1999	Air Pollution and Cardiovascular Responses. Lecture Visiting Scholars Program, Harvard School of Public Health
2000	Lung Pathology. Presentation Brigham and Women's Hospital
2001	Cardiac Responses to Inhaled Particles. Research Seminar Harvard School of Public Health
2001	Identification of Occupationally Inhaled Particles in the Lung. Surgical Pathology Update Brigham and Women's Hospital
2002	CardioPulmonary Responses to Inhaled Particles. Work in Progress Seminar Physiology Program, Harvard School of Public Health
2003	Bronchioloalveolar Carcinoma. Surgical Pathology Update Brigham and Women's Hospital
2003	The Real Culprit for Ambient Air Pollution Health Effects: Ultrafine or Fine Particles. Debate Physiology Program, Harvard School of Public Health
2004	Cardiovascular Responses to Ambient Particles. Work in Progress Seminar Physiology Program, Harvard School of Public Health
2004	Inhaled Ambient Particles, Systemic Responses. Laboratory Presentation Pulmonary Division, Brigham and Women's Hospital
2005	Pathogenesis of Mesothelioma—Asbestos to Cancer. Lecture in International Mesothelioma Program Seminar Series Brigham and Women's Hospital
2006	Electron Microscopy—Analytical TEM and SEM. Core Competency Seminar Molecular and Integrative Physiological Sciences, Harvard School of Public Health
2007	Ambient Particle Research. Department of Environmental Health Colloquium Harvard School of Public Health
2007	Effects of Air Particulate on the Heart. Work in Progress Seminar Molecular and Integrative Physiological Sciences, Harvard School of Public Health
2008	Ultrastructural Analysis in Pulmonary Research. Core Competency Seminar Molecular and Integrative Physiological Sciences, Harvard School of Public Health
2008	Communicating to the Public Information on the Cardiovascular Effects of Air Pollution Lecture, Visiting Scholars Program, Harvard School of Public Health

2009	Unanswered Questions in Lung Biology - 2009. Molecular & Integrative Physiological Sciences, Harvard School of Public Health
2012	How does a person make a difference in the world? People to People Course Presentation International Students, Harvard Law School
2012	Cardiovascular Effects of Air Pollution Molecular and Integrative Physiological Sciences, Harvard School of Public Health
2013	Regarding Manganese CLARC Seminar Series, Harvard School of Public Health
2013	Assessing Cardiovascular Health Effects of Environmental Agents Core Competency Lecture Series, Department of Environmental Health, Harvard School of Public Health
2014	Overview of Ongoing Research Collaboration in the Cardiovascular Effects of Air Pollution SEAS Course on the Environment, Harvard College
2014	Pulmonary and Cardiovascular Health Effects of Traffic-related Aerosols Using a Rat Model of Diet-induced Metabolic Syndrome. CLARC Seminar Series, Harvard School of Public Health
2014	Air Pollution, Health Effects, and Climate Change, Understanding Trends in our Environment. Molecular and Integrative Physiological Sciences, Harvard School of Public Health
2015	Air Pollution and Asthma. Asthma Grand Rounds, AsthmaCenter, Brigham and Women's Hospital
2016	Simplified approaches to identifying foreign materials in the lung and other tissues using X-ray analyses. Surgical Pathology Update Dept of Pathology, Brigham and Women's Hospital.
2017	Science and Law: The Role of a Scientific Expert. Molecular and Integrative Physiological Sciences Seminar Series, Harvard School of Public Health

Report of Regional, National and International Invited Teaching and Presentations

Invited Presentations and Courses

The one presentation below sponsored by an outside entity is so noted and the sponsor is identified.

Regional

1980	Approaches to Diagnostic Biopsies. Presentation New England Society of Pathologists
1985	Pulmonary Vascular Disease. Lecture Pulmonary Pathology Section, New England Society of Pathologists
1997	Health Effects of Ambient Air Particles. Lecture NESCUM Regional Meeting
1997	Toxicity of Ambient Fine Particles. Invited Speaker Connecticut Environmental Concerns Conference, Particulate Air Pollution and Human Health. University of Connecticut, Storrs, CT
2010	Ambient Air Pollution and Cardiovascular Disease. Doctoral Student's Invited Speaker

- Seminar, Department of Environmental Health Boston University
- 2013 Complex Mixtures of Traffic-Related Particulate Induced Responses in the Respiratory and Cardiovascular Systems Department of Environmental Health Seminar Series, Boston University School of Public Health
- 2014 Air Pollution, Health Effects, and Climate Change, Understanding Trends in our Environment. Sloan School of Business, Boston College
- 2017 Science and Law: Issues in Permitting a new Cement Plant in New York State. Sloan School of Business, Boston College, Boston, MA
- 2018 Science and Law: A New Cement Plant for the Eastern USA- A 20 Year Saga. Dept of Economics, Brigham Young University, Provo Utah.
- 2018 Identification of Foreign Particles in Human Tissues using Raman Spectroscopy. New England Society of Microscopy, Meeting at MIT

National

- 1988 Comparison of preparation techniques for preserving soluble ions in cells for elemental analysis with the Zeiss CEM902. Lecture
Forum on Applications of Energy-Filtered Electron Microscopy, Electron Microscopy Society of America Annual Meeting, Milwaukee, WI
- 1990-1991 Electron Energy Loss Spectroscopy. Lecture
Advanced electron microscopy course, George Washington University
- 1991 Pulmonary Lymphoma. Lecture
Pulmonary Pathology Specialty Course, International Academy of Pathology, Chicago
- 1992-1993 Detection of Elements using Electron Spectroscopic Imaging and Electron Energy Loss Analysis. Lecture
International Conference on Current Trends in Immunomicroscopy. Washington, DC
- 1993 Morphology of Extracellular Pulmonary Lining Fluids. Speaker and Participant
International workshop on Interactions of Particles with the Lung. San Francisco, CA
- 1995 Mortality from Exposure to Concentrated Air Particles in Animals with Pulmonary Disease. Presentation
US Environmental Protection Agency, Clean Air Standards. Advisory Committee Meeting, Research Triangle Park, NC
- 1996 Mechanisms of Morbidity and Mortality Associated with Environmental Particulate Inhalation. Lecture
2nd Colloquium on Particulate Air Pollution and Health, Park City, Utah
- 1996 Mechanisms of Morbidity and Mortality associated with Particulate Air Pollution. Speaker
EPA Visiting Professor Series Seminar, Research Triangle Park, NC
- 1997 Cardiac Effects of Inhaled Ambient Particles. Speaker and Visiting Professor
Lovelace Respiratory Research Institute, Albuquerque, New Mexico
- 1998 Particular Health Effects. Invited Plenary Speaker
Air and Waste Management Association Conference, Long Beach, CA
- 1998 Potential Mechanisms in Cardiac Disease. Invited Speaker
American Thoracic Society Meeting Symposium Air Quality: Particulate Matter and Disease, Chicago, IL
- 1998 New Approaches in Multi-Component Inhalation Toxicology Research. Invited Speaker
American Association for Aerosol Research, Particulate Matter and Health Symposium, Cincinnati, OH

- 1999 Cardiovascular Responses to Inhaled Particles. Invited Speaker
Johns Hopkins University School of Public Health
- 2000 Animal Models for the Investigation of Cardiovascular Responses to Particles. Invited Speaker, Session Co-Chair
American Thoracic Society Workshop, Inhaled Environmental/Occupational Irritants and Allergens: Mechanisms of Cardiovascular and Systemic Responses, Scottsdale, AZ
- 2000 Cardiac Responses to Ambient Air Pollution. Invited Speaker
American Public Health Association Meeting, Boston
- 2000 Cardiac Responses to Ambient Air Pollution. Invited Speaker
Mid-Atlantic Society of Toxicology Meeting, Nutley, NJ
- 2000 Findings in Animals. Invited Speaker
University of Rochester Symposium on Cardiac Responses to Inhaled Particles, NY
- 2001 Cardiovascular Responses to Ambient Air Particles. Invited Speaker
North Carolina State University Veterinary School Graduate Program, Raleigh, NC
- 2001 Cardiovascular Responses to Inhaled Particles. Invited Speaker
NIEHS Retreat, Pinehurst, NC
- 2002 Mechanisms of Inhaled Particle Cardiovascular Effects. Invited Speaker
National Research Council Committee on Research Priorities for Airborne Particulate Matter, Interdisciplinary Workshop, Seattle, WA
- 2002 Cardiovascular Responses to Inhaled Particles. Invited Speaker
Department of Pathology, University of Rochester School of Medicine, NY
- 2003 Particulate Matter. Invited Participant, Session Co-Chair
Atmospheric Sciences, Exposure and the Fourth Colloquium on PM and Human Health. Pittsburgh, PA
- 2003 Pollution and Heart Disease: The Emerging Science of Environmental Cardiology. Invited Participant, Session Co-chair and Speaker
American Heart Association Meeting, Orlando, FL
- 2004 Regional Cardiac Blood Flow with Air Particle Exposure Invited Speaker
NIEHS/EPA Research Program, The Role of Air Pollutants in Cardiovascular Disease. Washington, DC
- 2004 Cardiovascular Effects of Ambient Air Pollution: Laboratory Studies Using Animal Models, Invited Speaker
Louisville Symposium on Environmental Cardiology, Louisville, KY
- 2006 Toxicological Assessment of Particulate Matter Derived from Coal-Fired Power Plant Emissions, Invited Speaker
University of Indiana Medical School, Terre Haute
- 2006 Effects of Ambient Particles on the Heart. Invited Speaker
Session C Air Pollution and Cardiovascular, AWMA Featured Symposium Particulate Air Pollution and Health
- 2006 The Role of Air Pollutants in Cardiovascular Disease: Effects of Air Pollution on the Myocardium. Invited Speaker
- 2008 Etiology and Pathogenesis of Malignant Pleural Mesothelioma—Role of Asbestos in Lecture in Postgraduate Course Surgery-based Multimodality Therapy for Malignant Pleural Mesothelioma
- 2012 Cardiovascular Effects of Air Pollution, Department of Environmental and Occupational Health, University of Pittsburgh School of Public Health
- 2013 Exposure of Animals with High-Fructose Diet Induced Metabolic Syndrome to Traffic-

- 2014 Related Air Pollution, EPA Center Director's Meeting, Seattle, WA
New Approaches to Telemetered Cardiovascular Data Analysis, Introduction. EMKA Users Meeting, Columbus, OH (Sponsored by EMKA Technologies).
- 2015 Toxicology of Vehicle Emissions from Biofuels. Biofuels meeting at Inter American Development Bank, Washington D.C.
- 2016 Cardiovascular effects of air pollution in an animal model of Metabolic Syndrome. EPA Center Director's Meeting, Ann Arbor, MI
- 2020 Identification of Platy Talc and Fibers in the Female Genital Tract. FDA Public Meeting, Testing Methods for Asbestos in Talc and Cosmetic Products containing Talc. Washington, D.C.

International

- 1988 Electron Energy Loss Spectroscopy Using the Zeiss CEM902 to Assess Intracellular Injury. Workshop Presentation
US-FRG Cooperative Program in Pulmonary Research Workshop: Structural Consequences of Biochemical and Cellular Changes in the Lungs Caused by Injury, Günzburg, West Germany
- 1989 Pathology of Fetal and Neonatal Lungs. Lecture
Congress of the Polish Society of Pathologists, Poznan, Poland
- 1989 Embryonic Development of Lung Macrophage Membrane Characteristics. Lecture
Congress of the Polish Society of Pathologists, Poznan, Poland
- 1991 Mechanisms and Consequences of Ingestion of Particles by Alveolar Macrophages. Lecture
EULEP Symposium on Alveolar Macrophages, Oxford, United Kingdom
- 1997 Can Studies in the Laboratory Substantiate the Epidemiology. Ambient Particulate Matters. Symposium Speaker
Symposium on Particulate Pollution and Biologic Plausibility. A/ATS International Conference, San Francisco
- 1997 Speaker, National Air Pollution Conference
Santiago, Chile
- 1997 Invited Speaker and Visiting Professor
Department of Pathology, University of Sao Paulo, Brazil
- 1998 Pathophysiology in Animal Exposures to Concentrated Ambient Air Particles. Invited Speaker and Session Chair
3rd International Congress of Pathophysiology, Lahti, Finland
- 1999 Cardiovascular Responses to Inhaled Particles. Invited Speaker
7th International Inhaled Particles Symposium, Hanover, Germany
- 1999 Systemic Effects of Inhaled Environmental Particles. Plenary Speaker
12th International Congress ISAM Vienna, Austria
- 2000 Summary of Experimental Studies of Cardiovascular Effects of Air Pollution. Featured Speaker
American Thoracic Society 96th International Conference, Mini-Symposium, Toronto, CA
- 2000 Laboratory Studies of Cardiovascular Responses to Air Pollution. Invited Speaker
University of Santiago/CONAMA Symposium on Ambient Air Pollution, Santiago, Chile
- 2003 Invited Speaker and Visiting Professor
Department of Pathology, University of Sao Paulo, Brazil

2008 Keynote Speaker
Japanese Society for Occupational and Environmental Medicine, Tokyo, Japan

2009 Invited Speaker, International Society for Aerosols in Medicine, Monterey, California

2009 Keynote Speaker
Brazilian Society of Cardiology, Symposium on the Environment, Sao Paulo, Brazil

2010 Invited Speaker
International Academy of Pathology Congress, Toxicology Symposium, Sao Paulo, Brazil

2010 Invited Speaker
USEPA Air 40 Webinar Series – Five years of Progress in PM Research; The Harvard-EPA Center: Novel Exposure Scenarios to Define the Health Effects of Particle Sources

2012 Organizer, Chair, and speaker – Harvard-USEPA Webinar “Modeling Secondary Particle Formation in the Laboratory for Toxicological Studies”

2012 Invited Speaker Symposium on Air Pollution Experimental Biology Meeting San Diego CA April 2012

2012 Invited Speaker University of Sao Paulo Air Pollution Symposium Sao Paulo Brazil August 2012

2012 Keynote Speaker, International Occupational and Environmental Health Summit, Philadelphia, PA. September 2012

2013 Invited Speaker, Faculty of Medicine International Symposium, University of Sao Paulo Health Effects of Traffic-Related Air Pollution, Sao Paulo Brazil September 10, 2013

2014 Invited Speaker, Faculty of Medicine International Symposium, University of Sao Paulo Health Effects of Traffic-Related Air Pollution and Climate Change, Sao Paulo Brazil June 25, 2014

2015 Invited Speaker, Faculty of Medicine International Symposium, University of Sao Paulo Update: Health Effects of Traffic-Related Air Pollution, Sao Paulo Brazil June 24, 2015

2016 Invited Speaker, School of Public Health University of Sao Paulo, Symposium on Obesity, Metabolic Syndrome and Air Pollution. Health Effects of Traffic-Related Air Pollution, Sao Paulo Brazil May 16, 2016

2016 Invited Keynote Speaker, Children and Adolescent Health Convocation, Cardiovascular Health and Heart Rate Variability Symposium Vitoria Brazil, May 18, 2016

Report of Clinical Activities and Innovations

Current Licensure and Certification

1975 American Board of Pathology, Anatomic Pathology Certification

1978- Commonwealth of Massachusetts Full-Medical License

Practice Activities

1973- 1978	Surgical Pathology Service	Hospital of Medical College of PA, Philadelphia, PA	6 wks/yr biopsies 6 wks/yr large resection specimens
1973- 1977	Autopsy Pathology Service	Hospital of Medical College of PA, Philadelphia, PA	12 wks/yr senior pathologist on service

1978	Autopsy Pathology Service	Hospital of Medical College of PA, Philadelphia, PA	50 wks/yr head of service; 12 wks/yr senior pathologist on service
1978-1985	Pulmonary Pathology Service	Brigham and Women's Hospital, Boston, MA	50 wks/yr head of service; Consulting pathologist on all pulmonary cases of surgical and autopsy pathology services
1978-1996	Autopsy Pathology Service	Brigham and Women's Hospital, Boston, MA	10 wks/yr senior pathologist on service
1986-1995	Pulmonary Pathology Service	Brigham and Women's Hospital, Boston, MA	52 wks/yr head of service; 25 wks/yr consulting pathologist on all pulmonary cases of surgical and autopsy pathology services
1996-2005	Pulmonary Pathology Service	Brigham and Women's Hospital, Boston, MA	52 wks/yr head of service; 20 wks/yr consulting pathologist on all pulmonary cases of surgical and autopsy pathology services
2005-2010	Pulmonary Pathology Service	Brigham and Women's Hospital, Boston, MA	52 wks/yr head of service; 16 wks/yr consulting pathologist on all pulmonary cases of surgical and autopsy pathology services
2010-2015	Pulmonary Pathology Service	Brigham and Women's Hospital, Boston, MA	52 wks/yr head of service; 12 wks/yr consulting pathologist on all pulmonary cases of surgical and autopsy pathology services
2015-2017	Pulmonary Pathology Service	Brigham and Women's Hospital, Boston, MA	16 wks/yr consulting pathologist on all pulmonary cases of surgical and autopsy pathology services
2014-2017	Autopsy Pathology Service	Brigham and Women's Hospital, Boston, MA	4 wks/yr senior pathologist on service
2017-Present	Analytical Pathology Service	John J Godleski, MD PLLC	Pathologist, CEO/CFO

Report of Technological and Other Scientific Innovations

1995 Harvard University New Invention B1157-95. Rat alveolar macrophage cDNA library. Licensed to PeproTech Inc., Rocky Hill, NJ. Widely used commercially.

- 1995 Harvard University New Invention B1139-95. Rat macrophage inflammatory protein-1 a cDNA clone. Licensed to PeproTech Inc., Rocky Hill, NJ. Widely used commercially
- 2001 Krishna Murthy, GG and Godleski, JJ. Device for monitoring breathing responses in animals and humans. US Patent No: US 6224.560 B1.
- 2012-Present Ferguson S, Diaz EA, and Godleski, JJ. Small animal plethysmograph and inhalation exposure system. US and International Patents Pending Licensed to EMKA Technologies

Report of Scholarship

Peer Reviewed Research Investigations

1. **Godleski JJ.** A chromosome modality study of the Walker carcinosarcoma 256. *New Phys* 1967; 16:149-154.
2. Thompson DS, **Godleski JJ**, Herman SP. Prognosis: Post-infectious mononucleosis. *J Am Coll Health Assoc* 1969; 17:453-457.
3. **Godleski JJ**, Lee RE, Leighton, J. Studies on the role of polymorphonuclear leukocytes in neoplastic disease using the chick embryo and Walker carcinosarcoma 256 *in vivo* and *in vitro*. *Cancer Res* 1970; 30:1986-1993.
4. **Godleski JJ**, Brain JD. The origin of alveolar macrophages in mouse irradiation chimeras. *J Exp Med* 1972; 136:630-643.
5. Dapena Valdes MA, Nissim JE, Arey JJ, **Godleski JJ**, Schaaf HD, Haust MD. Yellow pulmonary hyaline membranes. *J Ped* 1976; 89:128-130.
6. Melnicoff MJ, **Godleski JJ**, Bercz JP. An automated method for the determination of sulfate. *Res Commun Chem Pathol Pharmacol* 1976; 14:377-386.
7. Balikian JP, Herman PG, **Godleski JJ**. Serratia Pneumonia. *Radiology* 1980; 137:309-311.
8. Herman PG, deSousa M, Schroeder S, **Godleski JJ**, Lapray JF, Drummey J, Lazaru H. Sex related differences in tumor progression associated with altered lymphocyte circulation. *Cancer Res* 1981; 41:2255-2261.
9. **Godleski JJ**, Gabriel KL. Peritoneal responses to implanted fabrics used in operating rooms. *Surgery* 1981; 90:828-834.
10. Goldstein JD, **Godleski JJ**, Herman PG. Desquamative interstitial pneumonitis associated with monomyelocytic leukemia. *Chest* 1982; 81:321-325.
11. Goldstein JD, **Godleski JJ**, Balikian JP, Herman PG. Pathologic patterns of *Serratia Marcescens* pneumonia. *Human Pathol* 1982; 13:479-484.

12. Goldhaber SZ, Hennekens CH, Evans DA, Newton EC, **Godleski JJ**. Factors associated with the correct antemortem diagnosis of pulmonary embolism. *Am J Med* 1982; 73:822-826.
13. Tryka AF, **Godleski JJ**, Fanta C. Leukemic cell lysis pneumonopathy: A complication of treated blast crisis. *Cancer* 1982; 50:2763-2770.
14. Tryka AF, Skornik WA, **Godleski JJ**, Brain JD. Potentiation of bleomycin induced lung injury by exposure to 70% oxygen. *Am Rev Respir Dis* 1982; 126:1074-1079.
15. Schroeder S, Caughran M, Jochelson M, deSousa M, **Godleski JJ**, Shulkin PM, Herman PG. Imaging of lymphoid structures with Indium-111 labeled lymphocytes. *Invest Radiol* 1983; 18:87-93.
16. Harbison ML, **Godleski JJ**. Malignant Mesothelioma in urban dogs. *Vet Path* 1983; 20:531-540.
17. Tryka AF, **Godleski JJ**, Skornik WA, Brain JD. Progressive pulmonary fibrosis in hamsters. *Exp Lung Res* 1983; 5:155-171.
18. Sweeney TD, Brain JD, Tryka AF, **Godleski JJ**. Deposition of particles in hamsters with pulmonary fibrosis. *Am Rev Respir Dis* 1983; 128:138-143.
19. **Godleski JJ**, Melnicoff MJ, Sadri SS, Garbeil P. Effects of inhaled ammonium sulfate on Benzo(a)pyrene carcinogenesis. *J Toxicol Env Health* 1984; 14:225-238.
20. **Godleski JJ**, Brain JD. Natural and induced antisera specific for pulmonary macrophages. *Lung* 1984; 162:171-182.
21. **Godleski JJ**, Joher MA, Goldstein JD, Brain, JD. Chemical characterization of specific pulmonary macrophage cell surface antigen. *Lung* 1984; 162:183-192.
22. Tryka AF, **Godleski JJ**, Brain JD. Differences in effects of immediate and delayed hyperoxia exposure on bleomycin induced pulmonary injury. *Cancer Treat Rep* 1984; 68:759-764.
23. **Godleski JJ**, Mortara M, Kobzik L, Joher A, Brain JD. Monoclonal antibody to alveolar macrophage surface antigen in hamsters. *Am Rev Respir Dis* 1984; 130:249-255.
24. Harbison ML, **Godleski JJ**, Mortara M, Brain JD. Correlation of age and surface antigen in hamster alveolar macrophages. *Lab Invest* 1984; 50:653-658.
25. Tryka AF, **Godleski JJ**, Brain JD. Alterations in pulmonary macrophages in hamsters developing pulmonary fibrosis. *Exp Lung Res* 1984; 7:41-52.
26. Brain JD, Sweeney TD, Tryka AF, Skornik WA, **Godleski JJ**. Effects of pulmonary fibrosis on aerosol deposition in hamsters. *J Aerosol Sci* 1984; 15:217-218.
27. Tryka AF, **Godleski JJ**, Shoen FJ, Vandevanter SH. Pulmonary vascular disease and hypertension after valve surgery for mitral stenosis. *Human Path* 1985; 16:65-71.

28. Tryka AF, Sweeney TD, Brain JD, **Godleski JJ**. Pulmonary fibrosis alters short-term clearance of an inhaled submicrometric aerosol. *Am Rev Respir Dis* 1985; 132:606-611.
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30. Kobzik L, **Godleski JJ**, Biondi A, O'Hara C, Todd RF. Immunohistologic analysis of a human pulmonary macrophage antigen (PAMI). *Clin Immunol Immunopath* 1985; 37:213-219.
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36. Goldhaber SZ, Dricker E, Buring JE, Eberlein K, **Godleski JJ**, Mayer RJ, Hennekens CH. Clinical suspicion of autopsy proven thrombotic and tumor pulmonary embolism in cancer patients. *Am Heart J* 1987; 114:1432-1435.
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39. Sorokin SP, Kobzik L, Hoyt RF Jr, **Godleski JJ**. Development of surface membrane characteristics of "premedullary" macrophages in organ cultures of embryonic rat and hamster lungs. *J Histochem Cytochem* 1989; 37:365-376.
40. Kobzik L, **Godleski JJ**, Brain JD. Oxidative metabolism in the alveolar macrophage: Analysis by flow cytometry. *J Leukocyte Biol* 1990; 47:295-303.

41. Kobzik L, **Godleski JJ**, Brain JD. Selective down regulation of alveolar macrophage oxidative response to opsonin-independent phagocytosis. *J Immunol* 1990; 144: 4312-4319.
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49. Ingenito EP, **Godleski JJ**, Pliss LB, Pichurko BM, Ingram RH. Relationship among mediators, inflammation, and volume history with antigen versus hyperpnea challenge in guinea pigs. *Am Rev Respir Dis* 1992; 146:1315-1319.
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52. Beck-Speier I, Lenz AG, **Godleski JJ**. Responses of human neutrophils to sulfite. *J Tox Env Health* 1994; 41:285-297.
53. Stearns RC, Katler M, **Godleski JJ**. Contribution of osmium tetroxide to the image quality and detectability of iron in cells studied by electron spectroscopic imaging and electron energy loss spectroscopy. *Microscop Res Tech* 1994; 28:155-163.
54. Patrick G, Stirling C, Kreyling WG, Poncy JL, Duserre C, Collier CG, **Godleski, JJ**, Brain JD. Interspecies comparison of the clearance of ionic cobalt from the lung. *Inhal Toxicol* 1994; 6: 225-240.

55. Crawford JM, Barnes S, Stearns RC, Hastings CL, **Godleski JJ**. Ultrastructural Localization of a Fluorinated Bile Salt in Hepatocytes. *Lab Invest* 1994; 71:42-51.
56. Brain JD, **Godleski JJ**, Kreyling WG. *In vivo* evaluation of biopersistence of nonfibrous inorganic particles. In: *Biopersistence of Respirable Synthetic Fibers and Minerals*. *Environ Health Perspect* 1994; 102(S 5):119-125.
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58. Sweeney TD, Skornik WA, Brain JD, Hatch V, **Godleski JJ**. Chronic bronchitis alters the pattern of deposition in the lung. *Am J Resp Crit Care Med* 1995; 151:482-488.
59. Shapiro GI, Edwards CD, Kobzik L, **Godleski JJ**, Richards W, Sugarbaker DJ, Rollins BJ. Rb inactivation and p16 expression in primary lung cancers and cell lines. *Cancer Res* 1995; 55: 505-509.
60. Crawford JM, Mockel GM, Crawford AR, Hagen SJ, Hatch VC, Barnes S, **Godleski JJ**, Carey MC. Imaging biliary lipid secretion in the rat: Ultrastructural evidence for vesiculation of the hepatocyte canalicular membrane. *J Lipid Res* 1995; 36:2147-2163.
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65. Oberdoerster G, Finkelstein J, Ferin J, **Godleski J**, Chang LY, Gelein R, Johnson C, Crapo JD. Ultrafine particles as a potential environmental health hazard. Studies with model particles. *Chest* 1996; 109 (S 3): 68S-69S.
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1. Toxicological appraisal of particulate polycyclic organic matter. In: Scientific and Technical Assessment Report on Particulate Polycyclic Organic Matter (PPOM). U.S. Government Publication EPA 600/6-75-001, 1975

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Proceedings of Meetings (Extended Abstracts/full papers only)

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Narrative Report – Dr. John J. Godleski

My research at Harvard Medical School, Harvard School of Public Health, and Brigham and Women's Hospital, focused upon the role of inhaled particles in pulmonary and systemic diseases. My lab made major strides in studying experimentally how increases in inhaled ambient particles lead to death, a serious public health problem found in epidemiological studies. I advocated the concept that the principle target organ for ambient particle health effects is the cardiovascular system, an idea that has set the research agenda in this field nationally and internationally since my lab's initial work in this area. Using animal models of the health effects of air pollution, studies from my laboratory provided both plausibility and a mechanistic understanding of the pulmonary and cardiovascular responses to inhalation of increased levels of ambient particulate air pollution. These studies were supported by research grants from the Health Effects Institute, the US EPA, and a Program Project Grant from NIEHS. I was Principal Investigator of all of these studies.

My recent research focused upon responses to inhaled particulates and used novel exposure models developed to assess health effects of 'real-world' ambient atmospheric particles. We sought to understand specific autonomic nervous system as well as inflammatory and genetic mechanisms by which particles affect the respiratory and cardiovascular systems. We defined sources of air pollution in attempts to identify the most toxic sources of pollution in need of control. For these studies, funding and access to coal-fired power plants was sought from the Electric Power Research Institute (EPRI). At the same time, the US EPA initiated and funded EPA academic centers for research in ambient particles. Investigators from the HSPH Department of Environmental Health competed for these centers with Dr. Koutrakis as Director of the Harvard Center and I served as Associate Director. After the initial competition, these Centers were re-competed twice more and only the Harvard Center with the same leadership team was successfully funded each time. In each of the EPA Center grants, in addition to being Associate Director, I led a research project focused upon the health effects of sources of air pollution.

For these studies, a mobile laboratory was designed and built to include a reaction chamber for the formation of secondary particles, monitoring and characterization of the exposure aerosols, capabilities for animal housing, surgery, and exposure, as well as the study of respiratory and cardiovascular pathophysiological responses of the animals. I led studies carried out at electric power plants in the mid-west and southern United States. These studies found mild, but statistically significant, respiratory and cardiac adverse effects for the most complex secondary aerosols from these plants. In addition to these experimental outcome findings, these studies represented a new approach to the study of sources and secondary particle formation and resulted in eight papers published in a special issue of the journal Inhalation Toxicology. I was the editor of this issue.

The same approach was used to study the respiratory and cardiovascular effects of vehicular sources of pollution. It was important to have reproducible aerosols in order to study the mechanisms of health effects observed, to have a mixture of vehicles representative of urban traffic pollution, to have a mixture

of both tailpipe emissions as well as particulate from tire and brake wear, and to have a source that had little or no input of contaminants from other sources. I secured an arrangement with the Massachusetts Department of Transportation to use the east-bound lane of the Ted Williams tunnel and a ventilation building of this tunnel on a secure site for the mobile laboratory. We found traffic pollution to be considerably more toxic than power plant emission or concentrated ambient urban particulate. For example, primary plus secondary traffic particles at a concentration of $\sim 50 \mu\text{g}/\text{m}^3$ increased blood pressure 10-20 mm Hg whereas $\sim 300 \mu\text{g}/\text{m}^3$ exposure to concentrated ambient particulate raised blood pressure 2-4 mm Hg which was statistically significant, but not clinically impressive. Similarly, all respiratory toxicological parameters including increases in lung inflammation and decreases in respiratory air flow were greater at the $\sim 50 \mu\text{g}/\text{m}^3$ concentration of traffic derived aerosols compared to $\sim 300 \mu\text{g}/\text{m}^3$ exposures with power plant derived aerosols or concentrated ambient particles. These findings support the need to continue to limit both tail-pipe and other emissions from both cars and trucks.

In addition to my role in the EPA Center, I also led the Inhaled Particles Research Core in our NIEHS Center at Harvard School of Health that was competitively renewed in 2015 for an additional five years of funding. Within the context of the NIEHS Center, I also led the Electron Microscopy Laboratory at HSPH that includes Scanning Electron Microscopy and energy dispersive X-ray analysis capabilities. I obtained these instruments as principal investigator on a Shared Instrumentation Grant from NIH and provide medical area-wide service to investigators within the NIEHS Center and within the Harvard Catalyst program. I also had funding from a South American consortium to study the toxicity of auto exhaust generated from biofuels. Overall, about 50% of my academic effort was directed toward research.

I have not only scientifically contributed to control of air pollution in the United States, but have worked for control of pollution in the mega cities of South America. I was appointed by the Dean of HSPH as director of the Harvard-Brazilian program at that institution. This appointment was based upon the program I developed in 2005 with Professor Paulo Saldiva, Chair of Pathology at the University of Sao Paulo. The concept of this program was to interest and develop medical students to eventually take a leadership role in combating the adverse effects of environmental pollution in Brazil. In this program, top medical students take a year off from their medical school studies and did research in laboratories at HSPH including my own. The program grew to as many as sixty annual applicants, and became the model for the nation-wide Brazilian Program, Science without Borders. To date, more than one-hundred students have participated in the program, these students have co-authored more than 60 papers, and among alumni who have finished medical school, twenty are involved in some form of environmental research within their specialties.

In addition to the programs described above in environmental research at HSPH, I led the pulmonary pathology unit at Brigham and Women's Hospital from 1978-2015, and I was a primary mentor of residents and fellows in pulmonary pathology. Pulmonary pathology at BWH grew to seven faculty members involved in the surgical pathology of thoracic diseases and the autopsy service. In addition to taking a regular turn on the pulmonary pathology service, I also served on the autopsy service of BWH. The pulmonary pathology service trained more than 20 fellows, all of which continue to have a role in pulmonary pathology in their careers. I also headed the pathology core in the International Pleural Mesothelioma Program at BWH. My research in mesothelioma focused upon asbestos as the cause of this malignancy and sought to understand mechanisms of fiber redistribution in the thorax, carcinogenesis, patterns of tumor growth with this malignancy that have prognostic significance, and how levels of retained asbestos fibers may play a role in patient survival.

I have authored more than 180 peer-reviewed publications including book chapters. I had teaching

responsibilities at Harvard School of Public Health as a mentor of pre and postdoctoral fellows. In 2004, my graduate student, Gregory Wellenius, won the Edgar Haber Award at Harvard School of Public Health for the outstanding thesis in laboratory research at HSPH. I have been the primary mentor of five graduate students at HSPH. I mentored twenty-two post-doctoral fellows in my lab.

At HMS, I taught in the introductory pathology course, and have taught in the pulmonary and infectious disease courses. My clinical responsibilities for pulmonary pathology at Brigham and Women's Hospital included being a primary liaison of the pathology department with the BWH thoracic surgery and pulmonary medicine programs. I had clinical interaction, teaching, and research responsibilities with those programs through participation in their clinical management, clinical conferences, and research programs as consultant pathologist.

In 2017, I retired from my professorial positions at BWH, HMS, and HSPH and was given Professor of Pathology Emeritus status in 2018. I remain a consultant to multiple research and training programs at HSPH and BWH. Also in 2017, I started a small company to continue my interest in environmental health and specifically the identification of foreign particles in human tissue. This company, John J Godleski, MD PLLC, now has 7 employees who contribute to studies in both these areas of interest.

Exhibit B

John J Godleski, MD
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Milton, MA 02186

Case List of Testimony

Year	Case	Law Firm	Location	Testimony	Dates
2020	Little v Sisolak	Randazza	Gloucester, MA. / Nevada	hearing by Zoom	Dec 30
2020	Diaz v Coram et al	Keplinger	Quincy, MA	Deposition	June 2,
2019	Forrest v Johnson & Johnson et al	Onder Law	St. Louis, MO	In court	Dec 10-11
2019	Forrest v Johnson & Johnson et al	Onder Law	Quincy, MA	Deposition	Oct 21,
2019	Driscoll v Johnson & Johnson et al	Beasley-Allen	Quincy, MA	Deposition	Oct 21,
2019	Brower v Johnson & Johnson et al	Beasley-Allen	Atlanta, GA	In court	Sept 16-17,
2018	Forrest et al v Johnson & Johnson (13 cases in a group)	Onder, Beasley-Allen	Quincy, MA	Depositions	Sept 18-20,
2018	Brower v Johnson & Johnson et al	Beasley-Allen	Quincy, MA	Deposition	Aug 2,
2017	Blaes v Johnson & Johnson et al	Beasley-Allen	St. Louis, MO	In Court	Oct 23,
2017	Echeverria v Johnson & Johnson	Robinson-Calcagnie	Los Angeles	In Court	August 2-3,
2017	Slemp v Johnson & Johnson et al	Beasley-Allen	St. Louis, MO	In Court	April 25-26,
2017	Echeverria v Johnson & Johnson	Robinson-Calcagnie	Boston, MA	Deposition	April 27,
2017	Evans vs Johnson & Johnson et al	Onder Law	Boston, MA	Deposition	March 29,
2017	Hershmann v Johnson&Johnson	Beasley-Allen	Boston, MA	Deposition	March 30,
2017	Echeverria v Johnson & Johnson	Robinson-Calcagnie	Boston, MA	Deposition	March 30,
2017	Daniels v Johnson & Johnson et al	Beasley-Allen	St. Louis, MO	In Court	Feb 14,
2017	Daniels v Johnson & Johnson et al	Beasley-Allen	Boston, MA	Deposition	Jan 11.
2016	Oules v Johnson & Johnson et al	Ashcraft & Gerel	Boston, MA	Deposition	Dec 5,
2016	Giannecchini v J & J et al	Beasley-Allen	St. Louis, MO	In Court	Oct 11,
2016	Slemp v Johnson & Johnson et al	Beasley-Allen	Boston, MA	Deposition	Oct 5, 2016
2016	Carl v Johnson & Johnson et al	Golomb & Honik	Atlantic City, NJ	In Court	Aug 9,
2016	Giannecchini v J & J et al	Beasley-Allen	Boston, MA	Deposition	Aug 4,
2016	Giannecchini v J & J et al	Beasley-Allen	Boston, MA	Deposition	June 24,

2016	Ristesund v Johnson & Johnson	Beasley-Allen	St. Louis, MO	In Court	April 18,
2016	Balderama v Johnson&Johnson	Golomb & Honik	Boston, MA	Deposition	Mar 24,
2016	Carl v Johnson & Johnson et al	Golomb & Honik	Boston, MA	Deposition	Feb 29,
2016	Fox v Johnson & Johnson et al	Beasley-Allen	St. Louis, MO	In Court	Feb 4,
2015	Ristesund v Johnson & Johnson	Beasley-Allen	Boston, MA	Deposition	Nov 10,
2015	Pfau v Johnson & Johnson et al	Beasley-Allen	Boston, MA	Deposition	Sept 30,
2015	Hancock v Johnson & Johnson	Beasley-Allen	Boston, MA	Deposition	Sept 30,
2015	Fox v Johnson & Johnson et al	Beasley-Allen	Boston, MA	Deposition	Sept 9,
2015	Planer v Water Co.	Foley & Mansfield	Boston, MA	Deposition	Aug 12,
2015	Blaes v Johnson & Johnson et al	Beasley-Allen	Boston, MA	Deposition	May 27,
2015	Budke v Ethicon et al	Mazie, Slater, & Katz	Camden Co, MO	In Court	Jan 15,
2014	Budke v Ethicon et al	Mazie, Slater, & Katz	Boston, MA	Deposition	Nov 12,
2013	DeGeorge v Holden Oil Company	Joyce Law Firm	Salem, MA	In Court	Nov 21,
2013	Berg v Johnson & Johnson	Smith Law Firm	Sioux Falls, SD	In Court	Sept 27,
2012	Berg v Johnson & Johnson	Smith Law Firm	Boston, MA	Deposition	Sept 18,
2011	Caldwell v Rivers	Fann & Petruccelli	Boston, MA	Deposition	Oct 20,
2010	No cases for deposition or court				